

20000801.qrp v01\_n900.qrl.20000801

Date: Tue, 1 Aug 2000 19:03:11 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1900

QRP-L Digest 1900

Topics covered in this issue include:

- 1) [76250] Re: Vectronics Kits  
by n4qa@juno.com
- 2) [76251] FW: Re: Transceivers for Backpacking  
by Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>
- 3) [76252] Re: hamfest booty (long)  
by "Harry Hurst" <hhurst@delanet.com>
- 4) [76253] Under the house Antenna  
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 5) [76254] Lew McCoy  
by Bob Kimbrell <kimbrell@netcom.com>
- 6) [76255] Re: Under the house Antenna  
by Phil Wheeler <w7ox@earthlink.net>
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by "Mike Yetsko" <myetsko@insydesw.com>
- 8) [76257] FW: Re: Transceivers for Backpacking  
by "Randy Joiner" <biggman@accucomm.net>
- 9) [76258] Ft. Tuthill  
by Jim Lowman <jmlowman@ix.netcom.com>
- 10) [76259] BB Contacts  
by "Joe Spencer" <kk5na@quadj.com>
- 11) [76260] Re: Under the house Antenna  
by "w8diz" <w8diz@cinci.rr.com>
- 12) [76261] Re: Under the house Antenna  
by "Harry Hurst" <hhurst@delanet.com>
- 13) [76262] Re: PSK-31  
by "laura halliday" <marsgal42@hotmail.com>
- 14) [76263] Re: Twinlead  
by "Steve and Anne Ray" <sbralr@worldnet.att.net>
- 15) [76264] Re: Under the house Antenna  
by n4qa@juno.com
- 16) [76265] Re: Transceivers for Backpacking  
by Dan Tayloe <dtayloe@home.com>
- 17) [76266] Re: Under the house Antenna  
by Ray Colbert <w5xe@juno.com>
- 18) [76267] RE: Under the house Antenna  
by "Bill Johnson" <b1ljohn@msn.com>
- 19) [76268] Ft Tuthill 2000 (loooong)

- by Bob Hightower <nk7m@extremezone.com>
- 20) [76269] Re: Vectronics Kits  
by "Maddog 'n' Miracles" <maddog@io.com>
- 21) [76270] Re: Under the house Antenna  
by Bruce Rattray <rattray@gpfn.sk.ca>
- 22) [76271] BB #45 Report...  
by =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@yahoo.com>
- 23) [76272] FS--Ten Tec OMNI C station  
by "Wilford D. Lindsey" <70511.3041@compuserve.com>
- 24) [76273] OT?: Ramsey RF Power Amp  
by Steve Bauder <sbauder@win.bright.net>
- 25) [76274] Re: Underhouse - Alternative  
by Joel Malman <malman@world.std.com>
- 26) [76275] Re: Under the house Antenna  
by Dave Sjolin <sjolin@swbell.net>
- 27) [76276] Re: Under the house Antenna  
by aweiss@usd.edu (Ade Weiss W0RSP)
- 28) [76277] Re: Underhouse - Alternative  
by aweiss@usd.edu (Ade Weiss W0RSP)
- 29) [76278] No Bee's`here for the third time  
by RangerSF5@aol.com
- 30) [76279] Great Hotel QTH: Regret not bringing my rig on this trip...  
by "Tom Scott" <TomRScott@Sterlink.net>
- 31) [76280] Re: Underhouse - Alternative  
by "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>
- 32) [76281] Re: PNP vs NPN  
by George Gingell <k3tks@u1.abs.net>
- 33) [76282] Re: 1 Volt Challenge  
by George Gingell <k3tks@u1.abs.net>
- 34) [76283] S53MA QRP home page  
by Alen Mitrovic <alen.mitrovic@hermes.si>
- 35) [76284] Re: Under the house Antenna  
by "Mike Yetsko" <myetsko@insydesw.com>
- 36) [76285] Re: Source for Sierra Band Module crystals?  
by Bob Kellogg <ae4ic@nr.infi.net>
- 37) [76286] Re: Wattmeter thoughts  
by Stewart Bryant <stewart.bryant@virgin.net>
- 38) [76287] QRP Quarterly  
by "Mike =?ISO-8859-1?Q?"N=D8WDM"?= <michaelbstjames@email.msn.com>
- 39) [76288] Re: QRP Quarterly  
by David Heintzleman <pstrdave@kdsi.net>
- 40) [76289] OT: Mercury style elapsed time meter question.  
by "Randy Randall" <RANDALLR@Healthall.com>
- 41) [76290] Re: Mercury style elapsed time meter question.  
by "Mike Yetsko" <myetsko@insydesw.com>
- 42) [76291] QRP NET  
by ekwik@rtimail.com
- 43) [76292] Anyone Help?

by Jerry Parker <jparker@fix.net>  
44) [76293] Bzzzzzz #101...  
by "Bruce & Tosh Hopkins" <makai@grouper.batelnet.bs>  
45) [76294] What's this FOX, BB, and BumbleBee stuff actually stand for? I don't  
get it.  
by "steve markowitz" <sdmarko@attglobal.net>  
46) [76295] Re: Anyone Help?  
by Phil Wheeler <w7ox@earthlink.net>  
47) [76296] Update OT: Mercury style elapsed time meter question.  
by "Randy Randall" <RANDALLR@Healthall.com>  
48) [76297] Yaesu FP-757GX pwr supply question  
by Kw4cz@aol.com  
49) [76298] Re: Handicap Challenge - please read  
by "Rick - WW9JD" <ww9jd@arrl.net>  
50) [76299] Re: Yaesu FP-757GX pwr supply question  
by Phil Wheeler <w7ox@earthlink.net>  
51) [76300] Re: power meters  
by Pete Burbank <plburbank@kih.net>  
52) [76301] Re: [GQRP] Re: 1 Volt Challenge  
by George Gingell <k3tks@u1.abs.net>  
53) [76302] to those who read my testmessage  
by "Hans Kaper" <hanskap@kaper-1.tmfweb.nl>  
54) [76303] Re: Yaesu FP-757GX pwr supply question  
by "Tom Hybiske" <hybiske@drs-fsc-comm.com>  
55) [76304] BB No. 46 Addendum  
by Bob Kellogg <ae4ic@nr.infi.net>  
56) [76305] Re: Pocket ATU  
by Bob Kellogg <ae4ic@nr.infi.net>  
57) [76306] Re: BB No. 46 Addendum  
by Steve Yates <aa5tb@yahoo.com>  
58) [76307] NCG transceivers -- need manuals and info for web site  
by "Caitlyn M. Martin" <caitlyn@netferrets.net>  
59) [76308] RE: Pocket ATU  
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>  
60) [76309] Re: BB No. 46 Addendum  
by Ed Lawson <elawson@lawson-philpot.com>  
61) [76310] FS  
by "bob baxter" <rbaxter@cybertrails.com>  
62) [76311] Re: BB No. 46 Addendum  
by "Rod, N0RC" <n0rc@qsl.net>  
63) [76312] Heathkit SB201 Linear Help...?  
by "Andy GM0NWI" <Gm0nwi@tesco.net>  
64) [76313] RE: Wattmeter thoughts  
by "AI2Q Alex" <ai2q@ispchannel.com>  
65) [76314] FS:HW-9  
by Daj73s@aol.com  
66) [76315] Re: BB No. 46 Addendum  
by wa4dou@excite.com

- 67) [76316] Re: Heathkit SB201 Linear Help...?  
by "Mont Pierce" <MyGrapeVine@yahoo.com>  
68) [76317] TEST.....  
by "George Osier" <gosier@twcnny.rr.com>  
69) [76318] PSK & TP 1200 -- No RS-232  
by david sarraf <david.sarraf@paonline.com>  
70) [76319] Re: FS  
by "bob baxter" <rbaxter@cybertrails.com>

-----  
Date: Mon, 31 Jul 2000 19:09:02 -0400  
From: n4qa@juno.com  
To: qrp-1@Lehigh.EDU  
Subject: [76250] Re: Vectronics Kits  
Message-ID: <20000731.190905.-149105.0.n4qa@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Greetings, Paul et al.

So far, I have built VEC-1240K xmtr, VEC-1140K rcvr and VEC-841K Tunable audio filter.

They work great together... after a few mods, that is.

Transmitter mods:

1.

Added 2N7000 FET at "rcvr ant" jack ( drain to center terminal, source to gnd ) which, when biased on at key-down by Q1 collector... a PNP ! 2N3906 even... allows for pretty clean QSK with VEC-1140K. May have had to reduce gate voltage from +12 V to +5 V or so during transmit, don't remember, exactly.

2.

Added a 1k resistor from Q1 collector to "off" terminal on power switch to achieve "spot " function. Since I took the easy way out for this mod, I do have to pull the rig's power plug or turn off the 12 V power supply to completely remove power from the rig.

3.

Added key jack on rear apron... don't like keying cable coming out the front of the rig.

Receiver mods:

1.

Added switched coaxial dc power jack to rear apron to allow rcvr operation from either an internal 9V "transistor" battery or external 9V supply.

2. Re-configured the oscillator section of the Philips SA-602 for VX0

operation to match freq range of the transmitter AND to be MUCH more freq stable... I like a very stable receiver, especially when using a very sharp filter with it !

Filter CABINET mod:

1.

While the filter works great, electronically, the "matching" cabinet is another story.

To make a long story short... I spent about a week on the telephone with several Vectronics representatives, explaining to THEM why the filter board kit did NOT fit into the "matching" cabinet... wrong program in CNC punch press...

Finally, I gave up on Vectronics and employed my trusty Dremel tool with grinder attachment for a little "hole-moving".

Anyway, I'm a happy camper, overall and use the VEC- stuff a lot when I'm not playing with my FAVORITE rig... the DSW-40 !

Good luck and 73,  
Bill, N4QA

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<http://dl.www.juno.com/get/tagj>.

-----  
Date: Mon, 31 Jul 2000 16:20:24 -0700

From: Tayloe Dan-P26412 <Dan.Tayloe@motorola.com>

To: "'qrpl'" <qrpl@Lehigh.EDU>

Subject: [76251] FW: Re: Transceivers for Backpacking

Message-ID: <87568F78ABDCD211A0AC0008C707718B029D0F90@az10exm03.sat.mot.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

> -----Original Message-----

> From: Tayloe Dan-P26412

> Sent: Monday, July 31, 2000 3:15 PM

> To: 'oxf01@maxmail.co.uk'

> Subject: Re: Transceivers for Backpacking

>

> >This is directed at people who are hikers/backpackers or use QRP rigs in

> >situations where power drain is an important criteria.

>

> I designed a 40m transceiver that Norcal has announced that will  
> be released in the January time frame next year.  
>  
> It will have 3 to 4w output using a 12v supply or 1 w using an internal  
> battery pack of five AA batteries. It will include a built in Tick  
> keyer and a BLT tuner so that all that is needed to go portable  
> is a paddle and an antenna.  
>  
> The receiver currently draws 38 ma, which hopefully will be reduced  
> to 10 ma at 12v. The receiver has high sensitivity (better than -136 dbm)  
> and a third order intercept point better than a diode mixer. One version  
> I built was measured at +24 dbm. I have never heard SWBC break  
> through on this radio that is common with many DC receivers.  
>  
> The receiver is a DC design with image rejection that uses  
> the new mixer design I invented, the Tayloe mixer. The image  
> rejection is about 45 db. It includes proper audio filtering  
> that is 350 to 500 Hz wide, and yet 40 db down at 60 Hz  
> and 1250 Hz.  
>  
> It may be what you are looking for. Most receivers need a large  
> amount of current consumption to get good performance. This  
> design is quite different and yields great performance while using  
> minimal current drain.  
>  
> - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions.

-----  
Date: Mon, 31 Jul 2000 19:22:57 -0400  
From: "Harry Hurst" <hhurst@delanet.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76252] Re: hamfest booty (long)  
Message-ID: <004901bffb46\$4319a5a0\$4651e2d8@upstairs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks to all for their serious, heartfelt replies to my post about my PNP problem.

I still have a few questions about PNPs, like "Are PNPs born that way, or is it learned behavior?". "If I try PNPs, will I be able to go back to NPNs later?" "If I build a rig using only PNPs, will other hams still respect me?"

The PNP rig will probably be just a toy, a DC receiver and transmitter.

Trying to build anything more complicated could possibly cause brain damage. After a lifetime of working with dangerous tools and chemicals, it would be silly to take a chance with PNPs.

OK, one PNP transceiver (The PNP80), then maybe another regen, then it's back to getting on 30 and 20 meters.

Sorry about the bandwidth, I guess I need another vacation

Hap, WA3PTG

Wilmington DE

A Last Quote: "Don't worry, it's not plugged in."

-----  
Date: Tue, 01 Aug 2000 09:34:48 +1000  
From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [76253] Under the house Antenna  
Message-ID: <39860D18.15CB4F08@integritynet.com.au>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hi Gang,

Living here in "rule city" and not being on good terms with management of our retirement village at the best of times, I've been giving a lot of thought to installing an antenna beneath my house.

My QTH can be described as a "manufactured home" i.e., it was delivered to the site in two halves and measures approximately 30' X 25'. At the front it is 4' above ground and at the back it's 2' above ground. Externally it is clad vinyl over alfoil with a metal roof. Overall very comfortable for xyl and myself. Adjoining houses either side are only 8' apart. Front yard is a 2' strip of garden and backyard is a whole 8'.

So you can see the problem I have. No real estate, surrounded by metal everywhere and an intractable management.

Has anybody, in similar circumstances, erected a "beneath the house antenna"? If so with what results, what works better than others etc. etc.

Thanks

72/73's

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E  
My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>  
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91  
URL - <http://www.electronics-tutorials.com/>

-----  
Date: Mon, 31 Jul 2000 16:49:35 -0700 (PDT)  
From: Bob Kimbrell <[kimbrell@netcom.com](mailto:kimbrell@netcom.com)>  
To: [qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)  
Subject: [76254] Lew McCoy  
Message-ID: <Pine.3.89.10007311622.A24036-0100000@netcom4.netcom.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I know that many on this list are friends of Lew McCoy.  
The following is from the ARRL Letter:

\* Lew McCoy seriously ill: Former ARRL Headquarters staff member and well-known Amateur Radio personality Lew "Mac" McCoy, W1ICP, is reported to be seriously ill. McCoy, an ARRL Life Member, is 84. His daughter Marsha Ashurst, W1HAQ, says that McCoy would enjoy hearing from friends and acquaintances. Greetings may be sent in care of Armann, 2215 East Siesta Dr, Phoenix AZ 85040 or via e-mail to [lewmccoy@uswest.net](mailto:lewmccoy@uswest.net). "I know it would help his spirits to hear from his ham buddies," his daughter said this week. First licensed as W0ICP in 1946 in Missouri, McCoy was an ARRL HQ fixture from 1949 until 1978 and was the first QST Novice editor. He has written hundreds of articles for QST and has been a major contributor to other Amateur Radio publications, including CQ.

-----  
Date: Mon, 31 Jul 2000 16:59:29 -0700  
From: Phil Wheeler <[w7ox@earthlink.net](mailto:w7ox@earthlink.net)>  
To: [ianpurdie@integritynet.com.au](mailto:ianpurdie@integritynet.com.au)  
Cc: Low Power Amateur Radio Discussion <[qrp-l@Lehigh.EDU](mailto:qrp-l@Lehigh.EDU)>  
Subject: [76255] Re: Under the house Antenna  
Message-ID: <398612E1.3D052519@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit



"Ian C. Purdie VK2TIP" wrote:

>  
> Hi Gang,  
>  
> Living here in "rule city" and not being on good terms with management  
> of our retirement village at the best of times, I've been giving a lot  
> of thought to installing an antenna beneath my house.  
>  
> My QTH can be described as a "manufactured home" i.e., it was delivered  
> to the site in two halves and measures approximately 30' X 25'. At the  
> front it is 4' above ground and at the back it's 2' above ground.  
> Externally it is clad vinyl over alfoil with a metal roof. Overall very  
> comfortable for xyl and myself. Adjoining houses either side are only 8'  
> apart. Front yard is a 2' strip of garden and backyard is a whole 8'.  
>  
> So you can see the problem I have. No real estate, surrounded by metal  
> everywhere and an intractable management.  
>

Can you load up the surrounding metal and use it as an antenna?

Phil

-----  
Date: Mon, 31 Jul 2000 20:01:23 -0400  
From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <ianpurdie@integritynet.com.au>, "Low Power Amateur Radio Discussion" <qrp-  
l@Lehigh.EDU>  
Subject: [76256] Re: Under the house Antenna  
Message-ID: <005601bffb4c\$2ffc1880\$0600a8c0@dad>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Well... I've loaded up the 'spouting' at one apartment complex.  
And I've done things with low power feeding a 'long wire' that  
was the super fine stuff from an IF transformer stretched to the  
trees. So there's Lots you can do.

One commercial product I've seen is a helix antenna that fits over  
the 'drain pipe' air tube that always sticks up through the roof.  
You can buy it or build your own.

Then I've actually made an internal pole antenna. It was like a  
'pole lamp' but was a helix. Didn't work very well.

Hmm, absolutely NO external antennas at all? None of your neighbors have ANYTHING? Not even a small sat dish? If they do, YOU could put one up (a fake) and then just put two 30ga 'guy wires' on it that won't be seen. You'd be amazed at what you can do with 'wire wrap' that can't be spotted from more than a few feet away. You could do it without the fake dish, but your lead-in would get spotted. By having the dish, now you have an excuse for your lead-in.

You could do something like put 'wind chimes' on the four corners of your house, or even put up decorative lights. But have an 'extra' wire with the lights that when you unplug the lights you now use the wire as your antenna.

Put a 20foot PVC post in the back yard at the corner. With a floodlight on the top. Or at least a floodlight socket. Don't put any wire to the light. Instead, run a 'vertical' line up through the pole...

Lots of things...

Mike

----- Original Message -----

From: Ian C. Purdie VK2TIP <ianpurdie@integritynet.com.au>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Sent: Monday, July 31, 2000 7:34 PM

Subject: Under the house Antenna

> Hi Gang,

>

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> of our retirement village at the best of times, I've been giving a lot  
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> Has anybody, in similar circumstances, erected a "beneath the house  
> antenna"? If so with what results, what works better than others etc.  
> etc.  
>  
> Thanks  
>  
>  
> 72/73's  
>  
> Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E  
> My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>  
> VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91  
> URL - <http://www.electronics-tutorials.com/>  
>  
>  
>

-----  
Date: Mon, 31 Jul 2000 20:21:11 -0400  
From: "Randy Joiner" <[biggman@accucomm.net](mailto:biggman@accucomm.net)>  
To: <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [76257] FW: Re: Transceivers for Backpacking  
Message-ID: <[001e01bffb4e\\$66b7b6c0\\$58ec443f@accucomm.net](mailto:001e01bffb4e$66b7b6c0$58ec443f@accucomm.net)>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Now here is a rig I've been waiting for.....where do I sign up.....I  
know I know.....wait till January right? No kidding Dan, I have wanted to  
see your rig for a while, and now here it comes.....

BTW.....do them NORCAL boys ever sleep?????

Randy N4SX

-----  
Date: Mon, 31 Jul 2000 17:23:21 -0700  
From: Jim Lowman <[jmlowman@ix.netcom.com](mailto:jmlowman@ix.netcom.com)>  
To: [qrp-1@lehigh.edu](mailto:qrp-1@lehigh.edu)  
Subject: [76258] Ft. Tuthill  
Message-ID: <[39861879.E71D7737@ix.netcom.com](mailto:39861879.E71D7737@ix.netcom.com)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Since it's nearing the end of the day at the office, I read through the accounts of the Ft. Tuthill Hamfest and swapmeet by Chuck Adams, Jim (Dr. Megacycle) Duffey and the others. To avoid message-count shock after being away for 10 days, I had set QRP-L to digest mode.

This was only our second trip, but was just great! Due to one flight cancellation and a four-hour delay on the next flight from Sacramento to Phoenix, we got a poor start driving up to Flagstaff on Friday and didn't arrive until 3:30. We went directly to the fairgrounds and spent a little over an hour wandering through the vendors' tables in the exhibit hall, and found a few members of the Lake Perris QRP Society near the QRP watering hole.

Someone asked about attendance in general, and specifically for the QRP crowd. No clue on total attendance, as there is no admission charged. In a private e-mail, someone speculated that it was down somewhat from last year. As far as QRPers, it was announced that there were about 50 on site, and more than 40 prizes that were given.

Breaking a long-standing dry spell, both Judy and I won prizes. She won a Tick4 keyer kit, and I won an ARRL Handbook for 2000. Thanks to those who donated the prizes!

Once again I was astounded at the number of vintage radios for sale at the swapmeet, and most in very nice condition. I almost had a near-mint condition Drake R-4C receiver, complete with all filters and the Sherwood mods, but the owner wanted to sell the entire 4-Line station and, understandably, didn't want to break up the set.

As Jim mentioned, it was quite hot as compared with last year. We didn't see anything that looked like rain clouds until we flew through a couple on the way to Ontario (SoCal) Airport.

Anyway, now we can begin to look forward to Pacificon!

72 de Jim - AD6CW

OBTW-there had been quite a bit of discussion about ways to get to Flagstaff, in the weeks before the event. As we went to dinner downtown Flagstaff on Saturday night, we walked by the Amtrak station. Yes, Flagstaff is a stop on the route from Los Angeles to Chicago - the old "Super Chief" line when Santa Fe had passenger service. We'll probably rent a car and drive next year, after our lousy experience with the flights.

-----

Date: Mon, 31 Jul 2000 20:27:48 -0500  
From: "Joe Spencer" <kk5na@quadj.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, <ve6kbs@agt.net>  
Cc: "Dave N2DE Lear" <jeda88@prodigy.net>, "James Roe" <jcroe2@home.com>  
Subject: [76259] BB Contacts  
Message-ID: <007901bffb57\$bcb57b80\$06010180@joe>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

BumbleBee #4 buzzed out into in the 100 degree plus heat here in Arlington, Texas  
and found the shade of a large Pecan tree in Red Kane Park during Sunday afternoon's Flight.

Members of NORTEX QRP and RACC QRP clubs combined to work as Bee #4. We got started  
a little late but plenty of bees out there.

Here are the particulars:

Flight of The BumbleBees 30 July 2000

=====  
Location: Red Kane Park Texas  
Callsign: K5RAC

20 M

-----

12:26

N4BP 599 FL 74

AK7Y 559 AZ 22

N7SR 599 MN 86

WF4I 579 NC 46

N9AW 559 WI 68

K8CV 559 MI 5W

WA4SQM 599 GA 30

N40LN 559 GA 5W

AF4PS 579 FL 5W

N9MZP 559 IL 5W

W5TB 579 TX 5W

AD4MZ 559 NC 28

W9SUL 579 MN 26

KL7H/C6A 559 BAHAMAS 101

W8RIK 559 OH 5W

KA8LLE 579 OH 3W

K1JD 559 RI 5W

N8IE 559 OH 2W  
K4BAI 569 GA 5W  
WB6JBM/8 559 OH 5W  
W0YSE 569 UT 95  
14:40  
W4ED 559 GA 38  
KA9TXE 570 IL 5W  
W4YNG 579 AL 5W  
K0EV2 569 ND 29  
KB9UUY 599 IL 87  
K04WX 599 GA 82  
KI0II 559 NE 47  
AC7CF 556 UT 88  
N0SXX 589 CO 10  
NK6A 599 CA 5W  
N6GA 579 CA 1  
AA7QU 559 OR 31  
KF4AR 599 NC 57  
VE3VX0 579 ON 50  
AA4XX 559 NC 84

15 M

-----

13:39  
W9SUL 579 MN 26  
W4EN 559 NJ 5W  
K7FD 559 OR 90  
W7EAI 529 WA 5W  
KB7CTF 599 OR 5W  
N4BP 599 FL 74  
VE6KBS 599 AB 100W  
K1VP 599 NH 67  
W1PID 579 NH 93  
N0UR 559 MN 33  
W0YSE 559 UT 95

36 contacts on 20 Meters  
11 contacts on 15 Meters  
28 contacts with cousins ( Bees)

Operators:

K0LOA  
N2DE  
AA5TB  
KK5NA

assisted by:

KK5QA  
KC5JQM  
KC5JYA

72 Joe KK5NA

-----  
Date: Mon, 31 Jul 2000 20:43:39 -0400  
From: "w8diz" <w8diz@cinci.rr.com>  
To: <qrp-1@lehigh.edu>  
Subject: [76260] Re: Under the house Antenna  
Message-ID: <004201bffb51\$89037090\$24171d18@cinci.rr.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Ian,

Here is what I would do first. Not sure what is second :-)

build a "special" antenna tuner that fits underneath the house. Do your best to bury ground radials as far from the house as possible. Place the tranceiver as close as possible to the "special" antenna tuner and run a very short piece of coax to the rig. The "MfgHouse" will become the radiating element in reference to the ground system. If you have copper pipes coming in, you may want to insert a section of PVC. Also, the power lines coming into the house could be RF choked somehow.

Thats what I would do cause I'm crazy...

PS: the "special" antenna tuner is just an LC network. (need to experiment on different bands)

73 & "oo's" - Dieter (DIZ) Gentzow - W8DIZ Loveland, Ohio Clermont County  
EM79ug near Cincinnati (39.218N-84.305W) multiPIG#1 with horizontal loop  
FPqrp#-1 SOC#8 DL-QRP-AG#1454 QRP-L#1998 qrpARCI#10226 10-X#9389 CATT#26  
<http://home.cinci.rr.com/w8diz/w8diz.htm>

----- Original Message -----

From: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Sent: Monday, July 31, 2000 7:34 PM  
Subject: Under the house Antenna

> Hi Gang,  
>  
> Living here in "rule city" and not being on good terms with management  
> of our retirement village at the best of times, I've been giving a lot  
> of thought to installing an antenna beneath my house.  
>  
> My QTH can be described as a "manufactured home" i.e., it was delivered  
> to the site in two halves and measures approximately 30' X 25'. At the  
> front it is 4' above ground and at the back it's 2' above ground.  
> Externally it is clad vinyl over alfoil with a metal roof. Overall very  
> comfortable for xyl and myself. Adjoining houses either side are only 8'  
> apart. Front yard is a 2' strip of garden and backyard is a whole 8'.  
>  
> So you can see the problem I have. No real estate, surrounded by metal  
> everywhere and an intractable management.  
>  
> Has anybody, in similar circumstances, erected a "beneath the house  
> antenna"? If so with what results, what works better than others etc.  
> etc.  
>  
> Thanks  
>  
>  
> 72/73's  
>  
> Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E  
> My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>  
> VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91  
> URL - <http://www.electronics-tutorials.com/>  
>  
>

-----  
Date: Mon, 31 Jul 2000 20:33:52 -0400  
From: "Harry Hurst" <[hhurst@delanet.com](mailto:hhurst@delanet.com)>  
To: <[ianpurdie@integritynet.com.au](mailto:ianpurdie@integritynet.com.au)>, "Low Power Amateur Radio Discussion" <[qrp-1@Lehigh.EDU](mailto:qrp-1@Lehigh.EDU)>  
Subject: [76261] Re: Under the house Antenna  
Message-ID: <001b01bffb50\$2b6bbe20\$1d50e2d8@upstairs>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit



> Living here in "rule city" and not being on good terms with management  
> of our retirement village at the best of times, I've been giving a lot  
> of thought to installing an antenna beneath my house.

I've used a wire run up along the soil pipe on 15 meters. It did quite well  
at QRP levels.

-----  
Date: Tue, 01 Aug 2000 00:50:34 GMT  
From: "laura halliday" <marsgal42@hotmail.com>  
To: qrp-l@lehigh.edu  
Subject: [76262] Re: PSK-31  
Message-ID: <F1211CPx33E1ioWwr2U0000373d@hotmail.com>  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed

Dieter w8diz (w8diz@cinci.rr.com) asked:

>here is a high tech (for me) PSK-31 question...  
>  
>If PSK-31 is described as sending "0"'s and "1"'s by doing a  
>phase reversal of the audio input to a SSB transmitter, what  
>does the RF signal look like?

Exactly the same, except for the frequency.

>I'm trying to figure out if there is an alternative to using  
>an audio/ssb generator.

There is. You can modulate the RF directly, rather than  
generating BPSK audio (the familiar warble) and translating  
it in frequency to RF with an SSB transmitter. Transform the  
bit stream from 0/1 to +/-1 and apply the (suitably shaped)  
proceeds to a balanced modulator at RF.

If you were in the market for a purpose-built PSK31 radio  
this would be the simplest way to do it. Feed it bits and  
get BPSK. Feed it audio and get DSB. People have made PSK31  
beacons this way.

Laura Halliday VE7LDH        "Que les nuages soient notre  
Grid: CN89mg                pied a terre..."  
                              - Hospital/Shafte

-----  
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-----  
Date: Mon, 31 Jul 2000 20:52:38 -0400  
From: "Steve and Anne Ray" <sbralr@worldnet.att.net>  
To: <qrp-1@Lehigh.EDU>, <shawn-upton@orgella.com>  
Subject: [76263] Re: Twinlead  
Message-ID: <005601bffb52\$cc7b83c0\$a972fea9@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Just a thought on bringing it in thru a wall. I recently used some outdoor 12 gage two wire with ground ( I pulled out the ground wire) and ran it through a hole in the wall straight to the tuner. The length of the outdoor wire is approximately 8 inches long. Previous install (for about 4 years) was coming in directly and running up along a metal desk. I could not tell any difference, but it made me feel better, keeping it free of all metal.

72,

Steve Ray K4JPN ex K1VKW HW-101, HW-8, OHR-100A, SWL 30-40 and NC 38S  
HeathKit fan  
Warner Robins GA EM82fp

-----  
Date: Mon, 31 Jul 2000 21:23:47 -0400  
From: n4qa@juno.com  
To: qrp-1@Lehigh.EDU  
Subject: [76264] Re: Under the house Antenna  
Message-ID: <20000731.212348.-149105.2.n4qa@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit

Hi, all.  
For some reason, the DDRR antenna just popped into my head as a possibility for the gentleman's under-house installation. Haven't those things been used successfully leaning against a tree and even on the underside of vehicles ? Or is this just a dream I had ?

73,  
Bill, N4QA

-----  
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<http://dl.www.juno.com/get/tagj>.  
-----

Date: Mon, 31 Jul 2000 18:24:14 -0700  
From: Dan Tayloe <dtayloe@home.com>  
To: qrp-l <qrp-l@Lehigh.EDU>  
Subject: [76265] Re: Transceivers for Backpacking  
Message-ID: <398626BE.FFB8BF90@home.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

What I brought is a dead bug prototype, with no tuner  
or internal battery pack, so there is not much that  
can be gained from a picture of my current rig. I think  
Norcal is considering producing the kit with case, knobs,  
the whole works, but I am not sure that is finalized yet.

A lot of folks listened to it and were very pleased with  
what they heard.

- Dan, N7VE

-----Original Message-----  
From: Jim/Julia [mailto:w7ls@blarg.net]  
Sent: Monday, July 31, 2000 4:44 PM  
To: Dan.Tayloe  
Subject: Re: FW: Re: Transceivers for Backpacking

Cool, Dan! Excellent. Where can I see a picture? How big is it? Does it  
come  
with  
a case? Batteries inside? Can you tell I'm interested? :- ) Thanks,  
Dan.  
73 de  
Jim, W7LS

Tayloe Dan-P26412 wrote:

> > -----Original Message-----  
> > From: Tayloe Dan-P26412

> > Sent: Monday, July 31, 2000 3:15 PM  
> > To: 'oxf01@maxmail.co.uk'  
> > Subject: Re: Transceivers for Backpacking  
> >  
> > >This is directed at people who are hikers/backpackers or use QRP rigs  
in  
> > >situations where power drain is an important criteria.  
> >  
> > I designed a 40m transceiver that Norcal has announced that will  
> > be released in the January time frame next year.  
> >  
> > It will have 3 to 4w output using a 12v supply or 1 w using an internal  
> > battery pack of five AA batteries. It will include a built in Tick  
> > keyer and a BLT tuner so that all that is needed to go portable  
> > is a paddle and an antenna.  
> >  
> > The receiver currently draws 38 ma, which hopefully will be reduced  
> > to 10 ma at 12v. The receiver has high sensitivity (better than -136  
dbm)  
> > and a third order intercept point better than a diode mixer. One version  
> > I built was measured at +24 dbm. I have never heard SWBC break  
> > through on this radio that is common with many DC receivers.  
> >  
> > The receiver is a DC design with image rejection that uses  
> > the new mixer design I invented, the Tayloe mixer. The image  
> > rejection is about 45 db. It includes proper audio filtering  
> > that is 350 to 500 Hz wide, and yet 40 db down at 60 Hz  
> > and 1250 Hz.  
> >  
> > It may be what you are looking for. Most receivers need a large  
> > amount of current consumption to get good performance. This  
> > design is quite different and yields great performance while using  
> > minimal current drain.  
> >  
> > - Dan Tayloe, N7VE; Phoenix, Az; Az ScQRPions.

-----  
Date: Mon, 31 Jul 2000 19:26:22 -0600  
From: Ray Colbert <w5xe@juno.com>  
To: ianpurdie@integritynet.com.au  
Subject: [76266] Re: Under the house Antenna  
Message-ID: <3986273E.A865A774@juno.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Ian, I also live in a "mobile home" aka manufactured home

altho that latter term came about several years after we started living in ours. Altho I have not tried under the house antennas, I have mounted a very thin wire on plastic standoffs that went the top side perimeter of the roof. Mounted only 4 inches from the metal roof, it did not work well, but did work. There have been some articles in the pubs here - some years ago - by people that had restrictions and even the perimeter antenna or mobile whip were not tolerated. Any chance of installing a water recirculator on the roof? (Also known as a DDDR antenna.) One person took a series of pieces of hookup wire, and cleaned the paint from the non-visible aluminium panels and connected the panels together with the hookup wire and then fed it with a short run of coax thereby using the siding as the antenna - less than 100 watts I think the person had. Aluminium awning or carport with the 2 or three support sections? Feed one or more as a short vertical with top loading. I think any of the above will far surpass the under house one. GL

Ray

--

"The more I see of the representatives of the people, the more I admire my dogs." letter from Count d'Orsay to John Foster 1850  
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS

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-----  
Date: Mon, 31 Jul 2000 20:56:21 -0500  
From: "Bill Johnson" <b1ljohn@msn.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76267] RE: Under the house Antenna  
Message-ID: <LPBBIJFJHHMCDNHIEMMCEEKKDAAA.b1ljohn@msn.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Another thought, If there are any trees within the immediate proximity, I would suggest taking the feed line up and out of a vent out the roof and then use two #30 fine magnet wires for a dipole and use a fish line connected to a fishing weight and launch each end into the tree as a dipole.

Get as close in length to the desired operating length as possible.

Or, you could also launch a single random wire into a nearby tree and run a ground radial system under the trailer. I operated from an extended stay on cw for almost a year with the fine wire and the plumbing in the bathroom sink for ground. No one could see it as it came out the window and was threaded through the screen. I routed it through the window very carefully not to cut it, and then launched it after feeding the amount of wire needed through the screen. I attached a healthy length of fish line and a weight and then fired it up onto a three story roof with a wrist rocket slingshot. I did it at night so as not to attract too much attention. The important thing, I did not disturb the appearance or operation of the place where I was staying.

Where there is a will there is a way.

Have fun and good luck.

Bill  
K9YEQ  
K-2 #35  
MN QRP CLUB

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Ray Colbert

Sent: Monday, July 31, 2000 8:26 PM

To: Low Power Amateur Radio Discussion

Subject: Re: Under the house Antenna

Ian, I also live in a "mobile home" aka manufactured home altho that latter term came about several years after we started living in ours. Altho I have not tried under the house antennas, I have mounted a very thin wire on plastic standoffs that went the top side perimeter of the roof. Mounted only 4 inches from the metal roof, it did not work well, but did work. There have been some articles in the pubs here - some years ago - by people that had restrictions and even the perimeter antenna or mobile whip were not tolerated. Any chance of installing a water recirculator on the roof? (Also known as a DDDR antenna.) One person took a series of pieces of hookup wire, and cleaned the paint from the non-visible aluminium panels and connected the panels together with the hookup wire and then fed it with a short run of coax thereby using the siding as the antenna - less than 100 watts I think the

person had. Aluminium awning or carport with the 2 or three support sections? Feed one or more as a short vertical with top loading. I think any of the above will far surpass the under house one. GL  
Ray

--

"The more I see of the representatives of the people, the more I admire my dogs." letter from Count d'Orsay to John Foster 1850  
Ray Colbert, W5XE, 00TC#3618, SOWP#1064M NARTE-NCT2 SOC#78  
MI-QRP 379QRP-ARCI 5784 NORCAL 1110, El Paso, (FAR WEST) TEXAS

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Date: Mon, 31 Jul 2000 19:26:24 -0700  
From: Bob Hightower <nk7m@extremezone.com>  
To: qrp-l@lehigh.edu, elecrafft@qth.net, azqrp@extremezone.com  
Subject: [76268] Ft Tuthill 2000 (loooong)  
Message-ID: <200008010221.TAA18959@enterprise.extremezone.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Well, another one is over. The AZ ScQRPs had a ball with this one, as we tried to do something a bit different, and keep it interesting for all.  
Hope it worked :^)

The campground began to fill early on Thursday, and by the time evening fell, there were 29 sites occupied, with perhaps 50 hams and spouses in attendance. It promised to be a great day on Friday.

Friday was "builders day", as we gave away 50 of the Tuna Tin 2 kits, with a lot of help from Doug Hendricks, KI6DS and NORCAL, with the understanding that they would be built on site. Some of the hams in attendance at the hamfest wanted to just take one and build it at home, later, but we had to explain that this was not a freebie for their junk box, but an attempt to get people to build and operate a real qrp rig. Didn't set well with some of them, but that was OK....left the kits for those that would build them :^)

I think I stated one time that 50 were built, but it was really about 48 or 49...had to cannibalize a couple due to some parts missing or bad. Not a bad record, tho, as I think they all worked. A test rig was set up, and all

were tested before they left the building area. It was really great to see hams (and some not yet hams) of all ages hunched over the bench, working on the little rigs. Lots of elmering going on as well, and no one lacked for encouragement.

Those that didn't want to build one, or who had already built more than their share of them, had the day free to visit the spaces in the two large lots for sellers, and, from noon Friday on, the commercial vendors in the main building.

At the ScQRPions booth, we were pleased to have Dave Benson NN1G, from Small Wonders Labs, with his PSK-20 rig, and some of the DSW-40's. Dave also had some SW40+ kits. Alongside him was Vern Wright W6MMA, with his PW-1 antennas. He spent a lot of time demonstrating them, and had Chuck Adams, K7QO, using one in the Saturday TT2 Sprint.

Joanna Jones, KD7GLY, was present in the ScQRPions booth most all weekend, as was Bertie Hightower N7XJW, answering questions, passing out information, selling noise generators and mic pre-amp kits. They were really the only ones who seemed to know what was going on, and when :^).

Elecraft was in the main building with their K-2's and accessories, and taking orders for the new K-1 rigs. Along with Eric and Wayne was Gary Surrency, AB7MY, who provides tech support. Gary was kept quite busy talking about both rigs, as Wayne and Eric were either selling or taking orders.

Saturday a.m., early-early (6:00 a.m.) we provided a low-cost pancake and sausage breakfast in the campground for those interested before they began to shop. The QRP presentations were not scheduled to start until 9:00 a.m., so there was time to find that much-sought treasure. Some found it, some didn't, but the looking is half the fun, right?

Dave Benson began the talks with a presentation on his PSK rig, and the mode in general, and covered some of his upcoming projects, which was very interesting. Following that, the Elecraft crew took over, and presented their product line and future projects, and answered questions from the crowd. The final speaker was Dan Tayloe N7VE, who talked a bit about his 10-meter rig, and answered questions about the 'quadrature mixer' and his newest, something about an 'integrator'. I don't fully understand what he was talking about, but I listened to the rig, and it was amazing! Look for this one to be kitted in the future.

During the lunch break, 17 K-2 owners brought their rigs for a 'reunion' with Wayne and Eric, and we had a picture taking session. Quite impressive to see all of them lined up on a table, with a K-1 in the center of it all.



All the owners got to get in the picture, and I'm sure we'll see some of them on the net soon.

Tom Hammond N0SS took over for about an hour after lunch, helping set K2 Filters and demonstrating the Spectrogram software. Tom was willing to help anyone with a rig to set their filters, or show them how to do it with Spectrogram, if they didn't have the rig with them. He did this periodically throughout the day, and the next day as well.

One O'Clock Saturday, or 2000 Z was the start of the great Ft Tuthill Tuna Tin 2 Sprint. We had no idea how many would participate, so it was set up on the fly (no, we were not disorganized, it just looked that way). About a dozen operators joined in, and we spread them out among three operating sites, each with power, receivers, antennas and keys, and they had at it. All of them made at least one QSO, usually with K7Q0, and some even made contact with hams out of the hamfest area, and out of state. A great time was had by all, and it was really great to see some of them make their very first CW contact, on a rig that they had just built. You had to be there :^)

Jerry Haigwood, W5JH, held a building contest, with the judging taking place just before the cook-out. He will post the results seperately, as I don't have the complete list. Some of the entries were really well done. Others.....well, this was a building contest, right?

Brian Kassel N7RE MC'd the dinner, and recognized some of the 'notables' present. One of our group, Jamie Johnson KC7MQY, had just passed the 5 WPM code session, getting over a large hurdle on her way up the licensing ladder, and Dave Benson donated an SW40+ rig to mark the occasion. Another member, Althea Dixon, KD7IUH, who only joined us a couple of months ago, passed her 5 WPM and General tests, and was presented a 20 Meter rig by Vern Wright. Great going, both of you!

Awards for the on-site Tuna Tin 2 Sprint participants were presented. There were only two, and, as no criteria were announced earlier, it was decided to present one to Jim Duffey KK6MC, for the absolutely worst signal during the sprint. We said his call should be KK6MC/C0. The award was a nice brass key, mounted on a swivel base to a wood plaque. Actually, it was an old key, one of the mounting screws missing, hence the swivel, and the piece of wood could, I suppose, be called a plaque. Had a rather large gouge out of it, but the key, when in proper position, covered that up. He will receive the missing screw and commemorative plaque later via snail mail.

The second award went to Ross Tucker, KD7FIK, as the youngest entrant to build the rig and make a qso with it. He was on the ARCA staff, and not able to attend the cook-out, so we'll mail the SMK-1 kit to him.

After a great cook-out, with Mike Connor NQ7K as chef, and with the traditional cowboy beans prepared by Roger Hightower N7KT and potato salad

and bread provided by Bertie Hightower N7XJW, we morphed into small groups and began to visit. Doug Hendricks, Bob Oka, Mike Connor and I'm sure a few more who I can't remember gathered up and began to strum their guitars, drawing an audience of their own. Darkness fell, and another Ft Tuthill QRP event was drawing to a close.

The AZ ScQRPions would like to thank all who attended and took part in the activities, and to say that we all enjoyed visiting and meeting each and every one of you. Thanks again to the vendors, speakers, and to Tom Hammond for helping to make this event so enjoyable and informative. We'd like to invite all of you to come back next year, and, if you haven't been there, make plans to be in Ft Tuthill during the last full weekend of July, 2001. We'll try to keep you entertained.

Bob Hightower NK7M  
Chandler, AZ  
SOC #20  
K2 #157/255

<http://www.extremezone.com/~nk7m>

-----  
Date: Mon, 31 Jul 2000 21:47:44 -0500  
From: "Maddog 'n' Miracles" <maddog@io.com>  
To: lighthouse@hotmail.com, qrp-l@Lehigh.edu  
Subject: [76269] Re: Vectronics Kits  
Message-ID: <4.3.2.7.1.20000731214310.00b31ef0@mail.io.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hi Richard!

On Mon, 31 Jul 2000 15:03:09 -0500 (EST), QRP-L, you wrote:

> I built the 1340 transciever kit, with some modifications.  
>I mounted it in a homebrew enclosure (you may have seen it at the  
>"show and tell" at Dayton FDIW this year; look at  
> <http://www.qsl.net/k4zol/daytonpix/image155.htm> (slightly mislabeled))  
>[snip]

Wow! That is one first class packaging job! I am humbled...

72,  
monty N5FC

```
*****\
* Monty Northrup (N5FC) * "There is no way to peace: * \ (**)
* Carolyn Blankenship * peace IS the way." * /^^^^^^) ~
* maddog@io.com * http://www.io.com/~maddog/ * /^^/^^/
*****
```

Date: Mon, 31 Jul 2000 21:07:37 -0600 (CST)  
From: Bruce Rattray <rattray@gpfn.sk.ca>  
To: "Ian C. Purdie VK2TIP" <ianpurdie@integritynet.com.au>  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [76270] Re: Under the house Antenna  
Message-ID: <Pine.LNX.3.95.1000731210655.13004F-100000@neale.gpfn.sk.ca>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've never done a beneath the house antenna system Ian but is a remote antenna system possible in your situation?

..72/73 - Bruce (VE5RC+VE5QRP) QRP-C#1 QRP-L#886 ARCI#9683 Zombie#272  
A-1 Operator Club - 10/10# 944 - SOC #11 & #12 - Whiner#10 -  
"QRP! How sweet it is!" "I am da man wit "DAH" paddle!"

Date: Mon, 31 Jul 2000 20:33:44 -0700 (PDT)  
From: =?ISO-8859-1?Q?"KB=D8VCC"?= <kb0vcc@yahoo.com>  
To: qrp-l@Lehigh.EDU  
Subject: [76271] BB #45 Report...  
Message-ID: <20000801033344.9764.qmail@web1202.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi Gang,

For those of you who haven't tired of BB stories...

Like so many others here in the NE, I had to adjust my plans due to the WX. RAIN...RAIN...RAIN! Received over 6" of rain in just the two hours prior to the start

of the BB event. I had originally planned to try for my last year's location (which I never made it to then because of lightning), but given that experience in light of the current forecast, I set out for my contingency location once the torrent tapered off to a heavy drizzle. That was about 2:00pm local. I had already missed the first hour of the event. This second location was "Foss Mountain" in Eaton, NH. Just a 13 mile drive, and a short (half mile or so) steep hike up a trail that had become a roaring cascading waterfall. I finally got above tree-line with an unobstructed shot to SW.

Since the XYL had borrowed my vehicle that day, I had to use her car ("thanks 'DEAR', oh, and sorry about the mud and the dent in your oil-pan") to get to this location. That limited my antenna options, as my usual Hamstick on 16 feet of mast wouldn't fit in her Accord, even when broken down to 8' sections. So, I brought two 100' spools of wire and a random-wire tuner. I unspooled the first spool, and laid it across the few bushes I could find up there. The highest point of this antenna was not more than 5' above the ground. It sloped down the mountain to the south for the first 50', then bent 90 degrees to the west. (hey, that's where the bushes were.) The other spool, I used as a counterpoise, unrolling about (+/-) a quarter wave and stretched it out on the ground. By the time I was set up, it was 1915Z. The drizzle was coming and going, but it was enough to keep me and the gear damp. I just kept watching for lightning and BEAR (heard one twice, below me, but couldn't see among the thick growth). Anyway, I started out on 20m grabbing two Q's, but it seemed so darn crowded that I hopped down to 40m. That of course required adjusting the length of the counterpoise. Captured only two contacts out of the QRN after 20 min, so I hopped up to 15m. Messed around with the counterpoise and tuner for 15 min, trying to get a decent match on that band. Heard only one station on freq, but couldn't make contact. Was it me, or was propagation lousy on 15m? Despite my noncompetitive nature, I decided to return to 20m and battle it out with the rest and the best. By the time I had everything re-adjusted for 20m (I REALLY need to cut some tuned counterpoises!) there was only 45 minutes remaining to the contest. I was successful in pulling 6 more contacts out of the chaos. Here are my humble results for the 90 minutes

I could operate. If you find yourself listed, consider yourself privileged. I was indeed a rare contact as the setup at my end was far from optimal and I missed most of the contest due to WX. Thank you all for your efforts working me.

--- 20m ---

1920Z - N3LAZ 559/559 PA 5w  
1927Z - KB9UUY 599/599 IL BB#87

--- 40m ---

1940Z - KD1JV 599/599 NH BB#100  
1952Z - WA1GEP 559/599 MA 5w

--- 20m ---

2018Z - WF4I 559/559 NY BB#46  
2022Z - N9AW 559/559 WI BB#68  
2025Z - K04WX 559/599 GA BB#82  
2035Z - WD9IFF 559/599 IL 5w  
2041Z - WA8ZBT 559/559 TX 5w  
2046Z - AA4XX 559/559 NY BB#84

Let's see, that's...

$(2 \times 8\text{-}20\text{m Q's} + 2\text{-}40\text{m Q's}) \times (6\text{BB's} \times 3)$

which is:  $18 \times 18$

or: 324 points. Oh well, there's always next year...

Reflections: For me, the contest was as always, a blast. Though the WX was typically disheartening, it was absent of nearby lightning, which IS an improvement over last year. So, it didn't knock me totally out of the game. My contingency location of Foss Mountain was an excellent choice. I now intend to operate from there often in the future, possibly even during a Spartan Sprint or the next QRPTTF. The Pequawket Fire Tower on Kearsarge North will still be my first choice for next year's BB event, and hopefully Mother Nature will finally grant me access. Otherwise, Foss, with only a half mile dash to the car is a safer alternative should lightning once again crash the party.

72/73 es tnx to the ARS for yet another great event!

Dale

=====

=====

Dale Anderson	In the Mt Washington Valley
KB0VCC	Conway, New Hampshire
QRP-L #91 / CQC #251	Grid Sq: FN43KX
ARS #234 / FISTS #3172	<a href="http://www.qsl.net/kb0vcc">http://www.qsl.net/kb0vcc</a>

=====

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Do You Yahoo!?  
Kick off your party with Yahoo! Invites.  
<http://invites.yahoo.com/>

-----

Date: Tue, 1 Aug 2000 00:13:15 -0400  
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>  
To: QRP-L Discussion Group <QRP-L@Lehigh.edu>  
Cc: "W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>  
Subject: [76272] FS--Ten Tec OMNI C station  
Message-ID: <200008010013\_MC2-AE2A-C6E8@compuserve.com>  
MIME-Version: 1.0  
Content-Transfer-Encoding: quoted-printable  
Content-Type: text/plain;  
charset=ISO-8859-1  
Content-Disposition: inline

Gang:

After much consideration, have reluctantly decided to part with my excellent Ten Tec OMNI C station. I know, I know. Will probably kick myself, but someone will be the lucky new owner :-).

This is a \*complete\* setup--OMNI C transceiver, matching 243 Remote VFO, matching 255 Power Supply, and the Ten-Tec 229A antenna tuner. NOTE that=

the rig has all WARC bands and CW filters. =

Everything looks new. The rig just returned from a PTO rebuild and tuneup at the Ten Tec factory. Offer includes a complete set of the original manuals. Will ship in Ten-Tec packing boxes.

Total for the entire setup = \$815.00, including insured UPS shipping to any address in the continental USA. If interested, let me know. Thanks.

72/73,

--W.D. (Doc) Lindsey  
DSBF  
PO Box 6028  
Bismarck, ND 58506  
(Shipping =3D DSBF, 2020 Lovett Ave, Bismarck, ND, 58504)  
E-Mail =3D K0EVZ@arrl.net

-----  
Date: Mon, 31 Jul 2000 23:42:11 -0500  
From: Steve Bauder <sbauder@win.bright.net>  
To: qrp-l@Lehigh.EDU  
Subject: [76273] OT?: Ramsey RF Power Amp  
Message-ID: <39865523.F7027478@win.bright.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Just put together a cute little 20w FET power amp from Ramsey for 20 meters. My intention is to use my DSW20 to drive the amp while I'm operating mobile. It works, sort of, but I'm only getting 5 watts out with the engine off (12v) and about 8 with the engine running (13.8v). I guess the thing works as advertised, because I can get 20 watts out of this amp for about a half second when the supply voltage is 15v, but the power drops off rapidly to about 12-15 watts. I'm using a Bird thruline to check power.

I've not worked with FET power amps much and I'm hoping to get some help getting a bit more power out of this thing (I know, that's heresy on this list, right?!?).

I've looked at the output with a spectrum analyzer (thanks to my generous employer). The output appears clean. No VHF parasitics, the harmonics are all nicely suppressed.

The input match leaves a bit to be desired. The SWR presented to the DSW driver is around 3:1, which results in slightly reduced drive power. Any suggestions for improving the input match? Adjust the turns on the input transformer?

I also noticed that the FETS get very warm quite rapidly, which probably accounts for the rapid drop-off in power output. Biasing adjusted just fine per the specs. Should I try larger heat sinks? I'm using the Ramsey supplied heatsinks with heatsink compound.

Any other thoughts/suggestions?

73,

Steve, NX9Z

-----  
Date: Tue, 1 Aug 2000 00:40:21 -0400 (EDT)  
From: Joel Malman <malman@world.std.com>  
To: ianpurdie@integritynet.com.au  
Cc: qrp-1@Lehigh.EDU  
Subject: [76274] Re: Underhouse - Alternative  
Message-ID: <200008010440.AAA15083@world.std.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Ian,

1.

If they will allow you to put up a TV antenna on the roof of your house, why not use the old trick of the FAKE guy wire... You might not be able to actually call it a 'long wire' antenna, but with a tuner you should be able to get it to loadup on at least a few bands.

2.

Install a mobile antenna on your car. Of course use a COAX cable that 'just happens' to be long enough, so that when your car is parked in your carport at night, the COAX just happens to reach your indoor ham shack. Extra added bonus: you can even use the mobile antenna when you are actually mobile.

Remember: any antenna is always better than no antenna.

72 ... joel

--

/joel K1QM (K1 Queen Mary), Concord, MA.  
QRP-L #337, QRP-ARCI #9305, MI-QRP #1641

-----  
Date: Mon, 31 Jul 2000 23:43:55 -0500  
From: Dave Sjolín <sjolin@swbell.net>  
To: ianpurdie@integritynet.com.au  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76275] Re: Under the house Antenna  
Message-ID: <3986558B.CC3DA093@swbell.net>  
MIME-version: 1.0



Content-type: text/plain; charset=us-ascii  
Content-transfer-encoding: 7bit

"Ian C. Purdie VK2TIP" wrote:

> Has anybody, in similar circumstances, erected a "beneath the house  
> antenna"? If so with what results, what works better than others etc.  
> etc.

Hope you can do better than beneath the house BUT if you cant, a beneath  
the house antenna can work.

When I first moved into my house some 17 years ago, I installed a random  
wire antenna in the basement. From ground level outside the house, it  
was about a foot high. Made quite a few contacts with it on 40 meters  
using 100 watts.

Also I hooked up a trap vertical immediately after assembling it in the  
basement. With the antenna laying across several chairs 3 feet off  
floor, I worked several stations on 75 meter SSB. This was with no  
radial attached.

Also worked Cuba on 40 meters one night with an ISOTRON in the basement.

So work with what you have. If that doesnt do the job, try something  
better. But do get some kind of antenna installed.

BTW, my current antennas are all outside. :-)

73 de Dave, N0IT

-----  
Date: Tue, 01 Aug 2000 07:34:49 GMT  
From: aweiss@usd.edu (Ade Weiss W0RSP)  
To: qrp-1@Lehigh.EDU  
Subject: [76276] Re: Under the house Antenna  
Message-ID: <200008010533.AAA08280@sunburst.usd.edu>

Another possibility. Can you hook up to the TV cable? If so, disconnect the pole  
end (tie it in place with  
a piuece of wire or string. Feed the shack end with a random-wire tuner.  
72, Ade

-----  
Date: Tue, 01 Aug 2000 07:39:54 GMT  
From: aweiss@usd.edu (Ade Weiss W0RSP)

To: qrp-1@Lehigh.EDU  
Subject: [76277] Re: Underhouse - Alternative  
Message-ID: <200008010538.AAA09390@sunburst.usd.edu>

Joel's idea is best -- a mobile ant. on the car. Surely the creep won't be able to object to a coax cable laying on the ground! Feed him some crap like it's for charging the battery.

Just goes to show that you have to check out the restrictions before moving in!

72 Ade

-----  
Date: Tue, 1 Aug 2000 02:08:35 EDT  
From: RangerSF5@aol.com  
To: qrp-1@lehigh.edu  
Subject: [76278] No Bee's`here for the third time  
Message-ID: <9.8c6cc0e.26b7c363@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

As luck would have it I was not able to work the BEE contest .  
Severe QRN from local storms and QSB to boot.  
20-M was the PITS!!!  
Third year in a row.Last year I forgot all about it but the fishing was good.  
I think i'll start my own BEE contest called THE FLIGHT OF THE \*KILLER\* BEE'S.

=====  
Some time ago a member of this list sent me his address so I could send him my NC-40-M for repair.  
I forgot his name and lost his \*E\* mail when my drive went out.  
If that person is reading this please mail me direct.  
Thanks  
Bob  
WA2HOQrp <tm>

-----  
Date: Mon, 31 Jul 2000 22:59:36 -0700  
From: "Tom Scott" <TomRScott@Sterlink.net>  
To: "'qrp-1 Reflector'" <qrp-1@Lehigh.EDU>  
Subject: [76279] Great Hotel QTH: Regret not bringing my rig on this trip...  
Message-ID: <000301bffb7f\$07c17300\$6ce06cc7@wyle.com>  
MIME-Version: 1.0



Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Gang,

Thanks so much for the heaps of replies on a huge variety of stealth antennas. So many replies in fact impossible to reply individually - a huge thank you to all. A great bunch as always.

FWIW sifting through the consensus, amalgamating ideas etc.:

1. Schemes involving anything on the roof are generally out, BUT I could possibly get away with some sort of long thin whip (again base loaded) erected on the ridge at the back of the house and worked against the roof. I'll have to check what's available in stainless steel rod and do some sums (also did structural engineering as part of past life to qualify as a builder) to see what L / d ratio is practical as well as unobtrusive.
2. Use (1) above as an extension of my existing 20' TV mast which rests on ground (only thing allowed BTW)
3. Flagpole vertical - ruled out because it would be a dead give away to management and the flying of the present Australian flag by an avowed Republican (not the US variety) who publicly advocates a "Uniquely Australian" flag is highly suspect. - Shame, but I'm not a hypocrite.
4. The old sewer vent pipe trick. This is a goodie, feasible and practical (being a plumber in another life). Option (a) use PVC, wind a helical, wrap in heat shrink and paint. (b) base load a standard (but painted) 2" copper vent pipe - geez, why did I give away all that copper tube before I came here?

Again a huge thanks to all who took the time to write, empathize and offer a wide range of "constructive" ideas <g>

72/73's with an oink

Ian Purdie Budgewoi N.S.W. Australia - Co-ords 33o:14' S 151o:34' E  
My FREE Newsletter:- <mailto:vk2tip@qsl.net?Subject=Subscribe>  
VK2TIP "I'll give ya the TIP mate" QRP-L #1978. SOC #171 FP#91  
URL - <http://www.electronics-tutorials.com/>

-----

Date: Tue, 1 Aug 2000 03:52:10 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-l@Lehigh.EDU>  
Subject: [76281] Re: PNP vs NPN  
Message-ID: <Pine.BSF.4.21.0008010345040.21110-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Golly Gee, It just dawned on me that We used -48 vdc (Battery) all those years at "MA BELL's" House just so that We could make those PNP's work good fer us. :^)

No wonder I have so much trouble with Diodes. Always seem to get em backwards in the radios.

Ever wonder why you never saw many PNP's used. Cuz "MA BELL" kept them all fer herself...

Even had her own "Secret Numbering System" Just in case you got any ideas about taking dem home fer use wid de raddios..

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
QRP A.R.C.I. Net Manager and Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems  
Notary Public and Locksmith Services  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117  
Maryland Milliwatt Club QRP Reference Library, (301)572-6789  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

-----  
Date: Tue, 1 Aug 2000 04:21:48 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-l@Lehigh.EDU>, G-QRP Club E-mail Reflector <gqrp@onelist.com>  
Cc: Harry Hurst <hhurst@delanet.com>  
Subject: [76282] Re: 1 Volt Challenge  
Message-ID: <Pine.BSF.4.21.0008010352200.21110-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hap,

You asked about what happened to the "1 VOLT Challenge".

I can't tell you much about the details, but you might want to check the QRP ARCI Website <<http://www.qrparci.org>>

There are two articles in the CURRENT ISSUE, (JULY 2000) of The QRP QUARTERLY.

1st Place Winner:

Pages 24-27 The Hamoeba - A 100mW Single-Cell CW Transceiver  
by Duncan Walters, G4DFV.

2nd Place (Tied)

Pages 28-29 1 Volt QRP Transceiver - by Helmut Seifert, DL2AVH.

2nd Place (Tied)

Entry by Charles Fletcher, G3DXZ

4th Place

Entry by James Roberts, NC9H

I also beleive That Steve Weber, "Melt Solder" KD1VR did some work on one also. Don't know if it was sent to Dayton for the Contest or not.

If you are not a Current Member of QRP ARCI, this is a good reason to consider joining us. The QRP Quarterly is Crammed with great stuff just like this in every issue.

OH Yes, Put me down as "Sponsor" on your Membership and/or Renewal Application. (K3TKS # 4368)

Details are on the QRP ARCI WEBSITE: <<http://www.qrparci.org>>

I should have a supply of the JULY 2000 ISSUE next week. The Printer sent the Back Issues stock to California, instead of Maryland.

FYI to all regular Subscribers, I got my personal copy in the Mail Yesterday (7/31/00). That means that everyone else should have theirs by now. :^)

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net

QRP A.R.C.I. Net Manager and Board of Director Member.

Gingell & Company, Ltd. Small Business Telephone Systems

Notary Public and Locksmith Services

George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117

Maryland Milliwatt Club QRP Reference Library, (301)572-6789

Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -

Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

-----  
Date: Tue, 1 Aug 2000 10:44:27 +0200

From: Alen Mitrovic <alen.mitrovic@hermes.si>

To: unlisted-recipients;; (no To-header on input)

Subject: [76283] S53MA QRP home page

Message-ID: <EA63CEA50DF8D311ABAD00B0D0211732010D4836@ha19000.hermes.si>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Hi!

I have redesigned my qrp home page. It's not finished, but you're kindly  
invated to stop by.

Best 72 de Alen /S53MA

<http://www.qsl.net/s53ma>

-----  
Date: Tue, 1 Aug 2000 07:25:08 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>, "Ian C. Purdie  
VK2TIP" <ianpurdie@integritynet.com.au>

Subject: [76284] Re: Under the house Antenna

Message-ID: <004f01bffbab\$5e556f60\$0600a8c0@dad>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hey Ian!

How about a little more description!

Someone made a comment about the cable tv to the pole. Do you have underground utilities or not? I know, no one likes it, but if you have a 'pole feed', you could probably get away with a very 'discrete' wire paralleling under the feed. But that (probably) technically isn't legal.

So I suppose you're back to the light post or a fake flagpole...

Mike

-----  
Date: Mon, 31 Jul 2000 14:44:08 -0400  
From: Bob Kellogg <ae4ic@nr.infi.net>  
To: mike.parkes@westcoasthotels.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76285] Re: Source for Sierra Band Module crystals?  
Message-ID: <3985C8F8.46E73D41@nr.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Mike,

Some of the crystals are hard to find. I wanted to do the same as you, but finally bought several Band Module kits, just to get the right crystals.

For the 40M module, I found a cheap crystal that was slightly under frequency. (14.980 MHz or so, instead of 15.0 MHz) A small toroid, about 15uH, I think, in series with the crystal bent the frequency up enough to make it work. A capacitor in series would probably bend the frequency down slightly. I was able to lay the inductor right on top of the crystal, so it fit in the module package. This was a couple of years ago, before the "U" shaped module covers.

Mike Parkes wrote:

> I am thinking of building my Sierra band modules from scratch - scrounging the



parts from whereever if I can save \$\$

Hope this helps.

--

73,

Bob Kellogg, AE4IC, Greensboro, NC

Prolobly, not nececelery. - Benny Hill

-----  
Date: Mon, 31 Jul 2000 21:06:59 +0100  
From: Stewart Bryant <stewart.bryant@virgin.net>  
To: Arjen.Raateland@vyh.fi  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76286] Re: Wattmeter thoughts  
Message-ID: <3985DC62.65FFE063@virgin.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

G3GR0 and I (G3YSX) published a circuit to build a bridge based mw meter in RadCom Jan/Feb 2000. We used a small low voltage bulb as the sensor. It was good beyond 2m with relatively little problem.

Stewart G3YSX

Arjen Raateland wrote:

> Pete Burbank wrote:  
> >  
> > I was curious why Peltier diodes are not used in wattmeters so  
> > mounted one in a diecast box with a heat sink on the back.  
>  
> I don't know about that idea, but it has something to do with heat and  
> so has the following RF power measurement idea. It is a simple DC bridge  
> circuit to measure low-level RF power.  
>  
> You need one glass-encapsulated NTC bead, which is the hard part :-(  
>  
> Looking into the RF input of the circuit there are three resistors in  
> parallel. One is the NTC. The other two are 150 Ohm fixed. At the far  
> ends they are bypassed for RF. The NTC and one of the 150 Ohm resistors  
> also make up one arm of a DC bridge circuit. The second 150 Ohm resistor  
> is in the null detector leg, i.e. in series with the microA null meter  
> for bridge balance.  
>

> Complete the bridge circuit with two other resistors of equal value.  
>  
> Supply the bridge with a variable DC voltage (series pot or finely  
> adjustable supply). Vary the bridge supply until you find the null. The  
> NTC heats up from the DC current in the bridge arm and will reach 150  
> Ohm at a certain supply current, which is when the bridge is balanced.  
> Note the DC current.  
>  
> Now supply a little RF to the RF input. This is dissipated in the three  
> resistors (2x150 Ohm fixed and the NTC also at 150 Ohm in parallel,  
> hence the total input resistance for RF is 50 Ohm). Readjust DC supply  
> downwards until new null found. Note the new, lower DC current.  
>  
> Do the math. Slow, but should be good for mW's and less.  
>  
> Disclaimer: I didn't invent this.  
>  
> 73,  
> --  
> Arjen Raateland  
> SAS Support  
> Finnish Environment Institute, Helsinki  
>  
> AX.25: OH2ZAZ@OH2RBI.FIN.EU

-----  
Date: Tue, 1 Aug 2000 07:46:34 -0500  
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>  
To: "qrp reflector" <qrp-l@Lehigh.EDU>  
Subject: [76287] QRP Quarterly  
Message-ID: <000101bffbb6\$8a37de00\$8f2a0b3f@default>

Another super fine QRP Quarterly arrived in yesterday's mail. My thanks to everyone who contributed.

Mike in Minnesota

-----  
Date: Tue, 01 Aug 2000 08:15:01 -0500  
From: David Heintzleman <pstrdave@kdsi.net>  
To: michaelbstjames@email.msn.com

Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76288] Re: QRP Quarterly  
Message-ID: <3986CD55.5FFC7DB1@kdsi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=iso-8859-1  
Content-Transfer-Encoding: 8bit

Absolutely, excellent publication.  
Dave K8BBM

Mike N WDM wrote:

>  
> Another super fine QRP Quarterly arrived in yesterday's mail. My thanks to  
> everyone who contributed.  
>  
> Mike in Minnesota

-----  
Date: Tue, 01 Aug 2000 09:47:18 -0500  
From: "Randy Randall" <RANDALLR@Healthall.com>  
To: <qrp-1@Lehigh.EDU>  
Subject: [76289] OT: Mercury style elapsed time meter question.  
Message-ID: <s9869cc5.009@healthall.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable  
Content-Disposition: inline

Hello. I have several Curtis Indachron 120CP3 2000 hr. elapsed time = meters that use a Mercury filled tube as the indicating device. They = kinda look like a small thermometer! Here is the question, When I hook = these up ( they are rated at 120V ) do I need a current limiting resistor = in series with them? I connected one to 120 VAC last night to be greeted = by a small explosion a few min. later. Was it just a bad one? I will be = using these on a Heath SB-220 to monitor "power on time" to the amp. ( = For tube warranty purposes. )=20

Thanks,  
Randy KB8ASO

p.s. I am placing this here as this is a very diverse group and some one = may have used these in the past.

-----  
Date: Tue, 1 Aug 2000 10:05:23 -0400

From: "Mike Yetsko" <myetsko@insydesw.com>  
To: <RANDALLR@Healthall.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76290] Re: Mercury style elapsed time meter question.  
Message-ID: <014701bfffbc1\$d0f5e8e0\$2101a8c0@insydesw.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I used them in the past. BSR used to put them on their turntables to measure stylus life.

120v seems out of the question!!!!

The way "I" understand it....

They are actually DC, or at least pulsed DC. Essentially the mercury evaporates on one side and condenses on the other. Very slowly. What you see is the apparant movement of the 'bubble'.

When the bubble gets to one end, you just flip it over and it now goes back.

With the unit on the BSR turntables, the 'tube' was in a socket. You just popped the cover, then popped the tube out of the contacts, flip it over, then move the 'zero' indicator slider to show the new 'zero reference'.

ALL Electronics is selling them right now and those are rated 24vdc and 150hr. I don't know if the voltage determines the time it takes for the bubble to traverse. The units from ALL appear to be sealed. They say 'non-resetable' but that may just mean you have to break the case open.

Mike

> Hello. I have several Curtis Indachron 120CP3 2000 hr. elapsed time meters that use a Mercury filled tube as the indicating device. They kinda look like a small thermometer! Here is the question, When I hook these up ( they are rated at 120V ) do I need a current limiting resistor in series with them? I connected one to 120 VAC last night to be greeted by a small explosion a few min. later. Was it just a bad one? I will be using these on a Heath SB-220 to monitor "power on time" to the amp. ( For tube warranty purposes. )

>

> Thanks,

> Randy KB8ASO  
>  
> p.s. I am placing this here as this is a very diverse group and some  
one may have used these in the past.  
>  
>

-----  
Date: Tue, 1 Aug 2000 10:13:18 -0400  
From: ekwik@rtimail.com  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76291] QRP NET  
Message-ID: <OF90291053.F1B1973E-0N8525692E.004D1CE2@rtimail.com>  
MIME-Version: 1.0  
Content-type: text/plain; charset=us-ascii

A reminder that the Michigan QRP Net meets each Tuesday night. The net is open to anyone wanting to check in. The net starts at 9:00 PM EDT which is 0100 UTC Wednesday. The frequency is 3.535 MHz. Conditions for the last two weeks were fair but the WX forecast for the Midwest says there is a lot of unstable air around and storms are possible all day today and tonight. QRN maybe tuff tonight. NCS will be Ed, AB8DF.

Thanks for the BW  
Ed

-----  
Date: Tue, 01 Aug 2000 08:25:11 -0700  
From: Jerry Parker <jparker@fix.net>  
To: qrp-1@LeHigh.edu  
Subject: [76292] Anyone Help?  
Message-ID: <2.2.32.20000801152511.00856a1c@fix.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Date: Mon, 31 Jul 2000 19:14:50 -0700  
To: qrl@LeHigh.edu  
From: RB95403@aol.com (by way of Jerry Parker <jparker@fix.net>)  
Subject: DK1WE KEY

RE: SIRS:

DO YOU HAPPEN TO KNOW HOW TO OBTAIN A DK1WE MICKIE KEY AS SEEN IN AUG CQ MAGAZINE?

73 BOB KE6TIV

\*\*\*\*\*

Anyone know?

Pls reply to Bob at RB95403@aol.com

Thanks and 72,,,Jerry...WA6OWR...k

-----  
Date: Tue, 1 Aug 2000 11:07:41 -0400  
From: "Bruce & Tosh Hopkins" <makai@grouper.batelnet.bs>  
To: <qrp-1@Lehigh.EDU>  
Subject: [76293] Bzzzzzz #101...  
Message-ID: <009601bffbca\$7c36e080\$bf0130ce@computer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Hi Gang...

Thanks to all who made the Bumblebee hunt a fun time... We had a perfect day here in the Bahamas, high around 90 F with a nice 15+ knot sea breeze... The set up this time was pretty clumsy as I seem to have a 7amp gel cell that has given its last gasp... I quickly switched to the 24 Amp Hr lead acid that I use for a starter battery on the backup generator... The battery voltage was just below 12V so my hour of charging with the 10 watt solar panel really didn't do much good... The Icom 706, power hog that it is, quickly had the battery voltage down to 11.5 V but the 706 kept on working at about 3 watts output... I used the 3rd hour of the contest to take a sun break and let the battery come up a bit and by the end of the contest the voltage was dipping below 11V during transmit... The antenna was a 1/4 wave vertical mounted just above the saltwater with one 1/4 wave radial and two swim ladders hanging in the water...

I managed to make 35 contacts on 20 meters and had a fun time... Logging with a pencil rather than my usual water based marker pen proved to be a smart move, when my first log sheet took a swim... The straw hat I was wearing to give some protection from the sun, made it into the drink on 4 different occasions... All tailor made excuses to get wet and cool off... 8^)

Thanks to all that participated... I will have my log up and available on my KL7H/C6A website in a couple of days... You all take care and have fun... Looking forward to the next "To The Field" event and perhaps by then I can have a shiny new K2 ready to go with its own internal battery/keyer/tuner... Sure would have been a lot easier !!!

72 - Bruce - KL7H/C6A

<http://www.qsl.net/kl7h>

-----  
Date: Tue, 1 Aug 2000 11:28:18 -0400  
From: "steve markowitz" <sdmarko@attglobal.net>  
To: <qrp-1@lehigh.edu>  
Subject: [76294] What's this FOX, BB, and BumbleBee stuff actually stand for? I don't get it.  
Message-ID: <01b101bffbcd\$208c5b40\$4c576420@oemcomputer>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I've been getting a lot of wierd stuff about FOX hints, flights of BumbleBees, and BB. Can someone explain it to me?  
Also, I was wondering if you knew about Ham Radio Courses and hamfests in the Philadelphia area?  
--=(|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|\_\_\_\_\_|)=--

72/73/TNX  
Ira Markowitz

-----  
Date: Tue, 01 Aug 2000 08:43:07 -0700  
From: Phil Wheeler <w7ox@earthlink.net>  
To: jparker@fix.net  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76295] Re: Anyone Help?  
Message-ID: <3986F00B.3201EAD0@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Probably not too helpful, but I did find this reference on the web:

The QRP Component Company - Supplier of Howes Kits (see previous entry)  
and Wood & Douglas Kits (VHF/UHF). Also keys by Bencher, DK1WE, Jones,  
Kent, Swedish Pump and Schurr.

Address:- G3TUX: The QRP Component Company, P.O. Box 88,  
Haslemere,  
GU27 2RF, England.

Tel: ++ (0) 1428 661501 (not Sundays)  
Fax: ++ (0) 1428 661794

web site = not known  
email = not known

I'd check with Marshall Emm at Morse Express.

Phil

Jerry Parker wrote:

>  
> Date: Mon, 31 Jul 2000 19:14:50 -0700  
> To: qrl@LeHigh.edu  
> From: RB95403@aol.com (by way of Jerry Parker <jparker@fix.net>)  
> Subject: DK1WE KEY  
>  
> RE: SIRS:  
>  
> DO YOU HAPPEN TO KNOW HOW TO OBTAIN A DK1WE MICKIE KEY AS SEEN IN AUG CQ  
> MAGAZINE?  
>  
> 73 BOB KE6TIV  
>  
> \*\*\*\*\*  
> Anyone know?  
>  
> Pls reply to Bob at RB95403@aol.com  
>  
> Thanks and 72,,,Jerry...WA6OWR...k

-----  
Date: Tue, 01 Aug 2000 12:21:18 -0500  
From: "Randy Randall" <RANDALLR@Healthall.com>



To: <qrp-1@Lehigh.EDU>  
Subject: [76296] Update OT: Mercury style elapsed time meter question.  
Message-ID: <s986c0cd.097@healthall.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: quoted-printable  
Content-Disposition: inline

I have found the info I was looking for. The catalog listing was WRONG. =  
These are rated 4.16 uA DC 1.2M external resistor is required for 5 =  
VDC!!! I think I exceeded this by many times. : '> I am calling the =  
vendor to make them aware of this fact. Thanks for all of your help.

Randy.

>>> "Randy Randall" <RANDALLR@healthall.com> 08/01 9:47 AM >>>  
Hello. I have several Curtis Indachron 120CP3 2000 hr. elapsed time =  
meters that use a Mercury filled tube as the indicating device. They =  
kinda look like a small thermometer! Here is the question, When I hook =  
these up ( they are rated at 120V ) do I need a current limiting resistor =  
in series with them? I connected one to 120 VAC last night to be greeted =  
by a small explosion a few min. later. Was it just a bad one? I will be =  
using these on a Heath SB-220 to monitor "power on time" to the amp. ( =  
For tube warranty purposes. )=20

Thanks,  
Randy KB8AS0

p.s. I am placing this here as this is a very diverse group and some one =  
may have used these in the past.

-----  
Date: Tue, 1 Aug 2000 12:33:21 EDT  
From: Kw4cz@aol.com  
To: qrp-1@lehigh.edu  
Subject: [76297] Yaesu FP-757GX pwr supply question  
Message-ID: <c0.73158b9.26b855d1@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Greetings to all,

Gordon Saunders kw4cz  
Greensboro, NC

Anyone using the Yaesu FP - 757GX switching pwr. supply ?  
If so, please pass along if possible the nitty - gritty specs. on this unit.  
Picked this item up locally (used) and no paper work / manual available.  
Any and all help appreciated.

Thank you for your time.

73,

Gordon kw4cz

-----  
Date: Tue, 1 Aug 2000 11:36:46 -0500  
From: "Rick - WW9JD" <ww9jd@arrl.net>  
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>, basil@us.fortis.com  
Subject: [76298] Re: Handicap Challenge - please read  
Message-ID: <3986B64E.18745.FF6F8C@localhost>  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT

Hi,

I don't have any answers, but I know of folks who might. Try the  
Morse2000 outreach:

<http://www.uwec.edu/academic/hss-or/Morse2000/>

On 31 Jul 2000, at 14:45, Basil Rabinowitz wrote:

> This is the ultimate communication challenge! My wife and I spent some time last  
week visiting with a relatively young woman who is unfortunately paralyzed due to  
a stroke. She is able to control her right eye (open/close) and a slight movement  
(but not well controlled) in one thumb. The only  
way she can communicate is by people calling out the alphabet (using a rows and  
columns format - row one is A to F etc.) and she blinks when you get to the right  
one. Needless to say this is extremely tedious.

>

> If we could find a method to detect the eye movement, I believe she could learn  
to send morse using her eye. With the programs available today, this could  
interface directly with a morse decoder so she could converse with anyone in the  
room - they would talk and she would send morse which would  
be decoded automatically and appear on a monitor. In fact, with a remote decoder  
she could converse with someone over a phone. In addition she would be able to  
write to others without anyone else's help. The thumb movement does not appear to  
be controlled enough to be viable, even with additional

therapy. Her mental faculties are excellent and she is extremely sharp!

>

> Let's take this one step at a time. Does anyone have a non invasive method for detecting the "blink of an eye"? I have thought of the possibilities of an LDR detecting the change in reflected light. It would need to be able to operate under different ambient conditions. She wears glasses which adds complications if we try to detect through them. We also want to avoid any heavy/uncomfortable connections (head straps etc. - remember it needs to be used most of the day). Perhaps something held on a retort stand next to the wheel chair? This would only require correct positioning of the head..A very "light" (no pun intended) detector could be attached to the glasses, but the wires could be cumbersome.

>

> Any ideas or resources - especially practical circuits would be most appreciated.

>

> To conserve bandwidth, please reply to me directly at:

>

> basil@us.fortis.com

>

> Also please let me know if you want me to keep you informed of developments. The next step will be to adjust a good decoding program to work with great tolerance in speed and to ignore extraneous blinks (which are currently much faster than controlled movement). Initial speed will be really slow!

>

> Who knows, we may even be able to get her to work the bands someday!

>

> 73's and thanks for your time

>

> AD0V/2 Dov (Basil) Rabinowitz QRP-L #2185

>

> \*\*\*\*\*

> Please Note

> The information in this E-mail message is legally privileged

> and confidential information intended only for the use of the

> individual(s) named above. If you, the reader of this message,

> are not the intended recipient, you are hereby notified that

> you should not further disseminate, distribute, or forward this

> E-mail message. If you have received this E-mail in error,

> please notify the sender. Thank you

> \*\*\*\*\*

73,

Rick

<><

-----  
Rick Dubbs WW9JD  
Greenwood (near Indianapolis), Indiana USA  
CARF #278; QRP-L #2184  
-----

Date: Tue, 01 Aug 2000 09:53:15 -0700  
From: Phil Wheeler <w7ox@earthlink.net>  
To: Kw4cz@aol.com  
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Subject: [76299] Re: Yaesu FP-757GX pwr supply question  
Message-ID: <3987007B.2FD89A89@earthlink.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

You can order a manual at:

Yaesu Parts Department (Manuals, Parts 8 am - 4 pm PST):  
(562) 404-2700  
(562) 404-4828 FAX

Phil

Kw4cz@aol.com wrote:

>  
> Greetings to all,  
>  
> Gordon Saunders kw4cz  
> Greensboro, NC  
>  
> Anyone using the Yaesu FP - 757GX switching pwr. supply ?  
> If so, please pass along if possible the nitty - gritty specs. on this unit.  
> Picked this item up locally (used) and no paper work / manual available.  
> Any and all help appreciated.  
>  
> Thank you for your time.  
>  
> 73,  
>  
> Gordon kw4cz

-----  
Date: Tue, 01 Aug 2000 13:02:16 -0400  
From: Pete Burbank <plburbank@kih.net>

To: <qrp-1@lehigh.EDU>  
Subject: [76300] Re: power meters  
Message-ID: <3.0.32.20000801130212.00a036b8@kih.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

> The Peltier is like a super thermocouple so would be sensitive  
>to low temp changes in a Non inductive very low R in series with the load.  
>Since most folks operate from hamshacks at a decent temperature  
>a reference temp based on coupling to a room heatsink would be fairly  
accurate. I have noticed several ads recently for these devices  
>for good prices as they are used to cool CPU chips. I'm thinking  
>that working backwards that they would be great for QRP wattmeters  
>and preliminary results here bear that out. Before I finish mine  
>thought I would toss it out to the group for more ideas.  
>No pecuniary interest here as I should win the lottery any day now!  
>HI!  
>73 Pete NV4V.

This is an interesting discussion with good ideas coming in from  
the group. I got sidetracked working on some phased verticals but will  
get back at it soon. I realize that there are many circuits and  
devices out there to measure power. My thoughts were to generate  
a device that would be in line and require no batteries....  
essentially RF connections in and out and a connection  
to a sensitive meter. The total system would be a RF current meter.  
73 Pete NV4V

-----  
Date: Tue, 1 Aug 2000 13:08:25 -0400 (EDT)  
From: George Gingell <k3tks@u1.abs.net>  
To: QRP List <qrp-1@Lehigh.EDU>, G-QRP Club E-mail Reflector <GQRP@egroups.com>  
Cc: Harry Hurst <hhurst@delanet.com>, Steve Weber <kd1jv@ncia.net>  
Subject: [76301] Re: [GQRP] Re: 1 Volt Challenge  
Message-ID: <Pine.BSF.4.21.0008011259050.2533-100000@u1.abs.net>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 1 Aug 2000, George Gingell wrote:

> I also believe That Steve Weber, "Melt Solder" KD1VR did some work on  
> one also. Don't know if it was sent to Dayton for the Contest or not.

PLEASE CORRECT Steve's Callsign to "KD1JV" NOT KD1VR.

Email "Steve Weber" <kd1jv@ncia.net>

> If you are not a Current Member of QRP ARCI, this is a good reason to  
> consider joining us. The QRP Quarterly is Crammed with great stuff just  
> like this in every issue.  
>  
> OH Yes, Put me down as "Sponsor" on your Membership and/or Renewal  
> Application. (K3TKS # 4368)  
>  
> Details are on the QRP ARCI WEBSITE: <<http://www.qrparci.org>>  
>  
> I should have a supply of the JULY 2000 ISSUE next week. The Printer sent  
> the Back Issues stock to California, instead of Maryland.

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net  
QRP A.R.C.I. Net Manager and Board of Director Member.  
Gingell & Company, Ltd. Small Business Telephone Systems  
Notary Public and Locksmith Services  
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117  
Maryland Milliwatt Club QRP Reference Library, (301)572-6789  
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -  
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

-----  
Date: Tue, 1 Aug 2000 19:00:29 +0200  
From: "Hans Kaper" <[hanskap@kaper-1.tmfweb.nl](mailto:hanskap@kaper-1.tmfweb.nl)>  
To: <[qrp-l@lehigh.edu](mailto:qrp-l@lehigh.edu)>  
Subject: [76302] to those who read my testmessage  
Message-ID: <000401bffbdc\$36ede340\$d508643e@tm981195>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Thanks folks for being helpfull and QSL my testmessage.

My E-mail sending was set on HTML in outlook express. It never reached the  
list. Before I knew that I changed different other settings such as plain  
E-mail address without call etc.

Now I set my E-mail to plain text and I don't have no problems no more.

Hans Kaper PA3HGM

-----  
Date: Tue, 1 Aug 2000 13:13:39 -0400  
From: "Tom Hybiske" <hybiske@drs-fsc-comm.com>  
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76303] Re: Yaesu FP-757GX pwr supply question  
Message-ID: <000601bffbdb\$d641a860\$7368f326@GACNT>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 8bit

Hi Gordon,

That's a good little supply, and I think you'll get a lot of use from it. There is a small problem though that, depending on the degree of "inrush" from the attached equipment, may cause the supply breaker to trip. I encountered this problem when using the 757GX supply with the Yaesu FT-847. I've included most of the text I received from Yaesu tech support. I've been told (though not in print) that the value for C32 was incorrect. The text below seems to verify this. This mod solved the problem. 7  
3.....Tom K3GM

Dear OM :

.....  
Best guess (very educated guess, though) is that the capacitor which sets the "delay" for the output is too small. This capacitor, C32 on your power supply's schematic, should be a 47 F electrolytic (50 WV is OK), although it is not impossible that there might be a 4.7 F or even 0.47 F in there--these are too small for the inrush drawn by the FT-847.

C32 is found on the schematic just above Q3 (2SA733). Replace the capacitor, watching the polarity, to ensure the compatibility to the 847. This will not "mess up" compatibility with the FT-757GX, by the way.

This should be all you need. The voltage and current capability of the FP-757GX are quite OK, but the compatibility between it and more modern rigs like the FT-847 was never engineered, alas. A quick trip into your junk box should provide the solution, and we hope this will help you out!

Kind regards,

YAESU U.S.A.

> Greetings to all,  
>  
> Gordon Saunders kw4cz  
> Greensboro, NC  
>  
> Anyone using the Yaesu FP - 757GX switching pwr. supply ?  
> If so, please pass along if possible the nitty - gritty specs. on this  
unit.  
> Picked this item up locally (used) and no paper work / manual available.  
> Any and all help appreciated.  
>  
> Thank you for your time.  
>  
> 73,  
>  
> Gordon kw4cz

-----  
Date: Tue, 01 Aug 2000 09:39:36 -0400  
From: Bob Kellogg <ae4ic@nr.infi.net>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Cc: Derek Brown <WF4I@att.net>  
Subject: [76304] BB No. 46 Addendum  
Message-ID: <3986D318.8DAFAE9A@nr.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Guys,

I forgot to mention one interesting contact. This guy had a nice  
signal, but for power the guy said KW! I had to smile, and wondered  
if he realized he was operating in a QRP contest. Then, it occurred  
to me that while he had a good signal, there were several others on  
the band just as good, and they were running 5 watts or less!

--

73,  
Bob Kellogg, AE4IC, Greensboro, NC  
Prolobly, not nececelery. - Benny Hill



-----  
Date: Tue, 01 Aug 2000 10:01:48 -0400  
From: Bob Kellogg <ae4ic@nr.infi.net>  
To: w0yse@juno.com  
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76305] Re: Pocket ATU  
Message-ID: <3986D84C.63145294@nr.infi.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Neil,

That's probably how long his piece of wire was. Most of us study the antenna design books in search of the ideal design. Eventually, though, we discover that if you're going to use a means of tuning the system, the actual length of the wire is not that critical.

Given a choice, I always opt for more wire, higher in the air.

I use a horizontal loop most of the time, and have to restring it every year or so due to storm damage, etc. It has been several lengths between about 400' and nearly 500'. It has always tuned all bands and worked well, regardless of the length, except 160M is easier to tune when the wire is longest.

The same thing could be said in general about dipoles or end fed wires. That is, the more wire, the higher in the air, the better the performance. Tuning them on some bands may be more of a problem than on others, but, it can be done with good results.

If building a single band antenna in a permanent location, by all means prune it to resonance and don't use a tuner at all. If you want to use an antenna on more than one band, and intend to tune it, why sweat the length? Put as much wire as you can in the air! (I realize that this *\*does\** affect the radiation pattern. IMHO, this is not significant for general coverage)

I agree with you about switching the caps in binary increments. Much simpler and more efficient use of parts.

w0yse@juno.com wrote:

> to resonance. The thing that puzzles me is why the 0.28 and not 0.25 w1.  
> Where did he get the 0.28w1??  
>  
> Instead of switching in all 100 pF caps, I might try and use a binary  
> system so that I can switch in more total capacitance. I would use

> one-each of these values: 100, 200, 400, 800 pF. I could then select a  
> combination of switch positions that cover every 100 pF up to 1500 pF.

--

73,  
Bob Kellogg, AE4IC, Greensboro, NC  
Prolobly, not nececelery. - Benny Hill

-----  
Date: Tue, 1 Aug 2000 10:55:53 -0700 (PDT)  
From: Steve Yates <aa5tb@yahoo.com>  
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>  
Subject: [76306] Re: BB No. 46 Addendum  
Message-ID: <20000801175553.14070.qmail@web3001.mail.yahoo.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Hi Bob,

We had a similar experience at K5RAC. I worked a  
station that using 100w and I believe he was a VE.

They must of just recognized that there was a contest  
going on and figured they would find out what kind of  
contest it was later :-). Then again they could of  
just been trying to help the score for some of us. Oh  
well, maybe we'll make some converts.

=====

73,  
Steve Yates - AA5TB  
Fort Worth, TX - EM12gs  
<http://www.geocities.com/aa5tb>  
[aa5tb@arrl.net](mailto:aa5tb@arrl.net)

-----  
Do You Yahoo!?  
Kick off your party with Yahoo! Invites.  
<http://invites.yahoo.com/>  
-----

Date: Tue, 1 Aug 2000 14:18:00 -0400

From: "Caitlyn M. Martin" <caitlyn@netferrets.net>  
To: qrp-L@lehigh.edu, 50mhz@6mt.com, vhf@w6yx.stanford.edu  
Subject: [76307] NCG transceivers -- need manuals and info for web site  
Message-ID: <00080114180003.01076@caitlyn.netferrets.net>  
Content-Type: text/plain  
MIME-Version: 1.0  
Content-Transfer-Encoding: 8bit

Hi, everyone,

I had the pleasure and the privelege of talking with Mick Stwertnik of NCG Company at Dayton this year. Most of you know NCG as the importer of Comet and Maldol antennas, Daiwa accessories, and as a brand name on some accessories and power supplies.

Back in the 1980s NCG was also the importer of National Radio (Panasonic) transceivers, which they sold under their own name with the NCG logo. National (of Japan) went out of the ham radio business sometime around 1986, and the NCG transceiver line died. At this time there is absolutely no service or support available.

A total of four transceivers were sold under the NCG name: two different 15 meter QRP mobile monobanders, a 6, 15, and 40 meter QRP tribander, and a full-featured 100 watt HF rig. So... I'm turning to the six meter and QRP communities for a little help at helping other hams who own and enjoy these rigs, but may have increasing problems servicing them.

With Mick Stwertnik's kind permission I have begun work on a web site dedicated to these transceivers. Included will be PDF copies of the manuals, and also of the Japanese technical references, the closest thing these rigs had to service manuals, which do have invaluable diagrams and data.

So far I have the owners manuals for the NCG-15M and NCG-7/21/50, as well as the technical reference for the RJX-715 (the Japanese model number of the NCG-15M). I still need owners manuals for the NCG-15SB and the NCG 10/160M, as well as the corresponding technical references. The Japanese model numbers I know of so far are the RJX-810 (10/160M) and the RJX-751 (7/21/50).

If anyone has copies of the manuals in question, please contact me. I'd like to work something out so that I can get hard copies and/or PDF copies.

Thanks and 73,  
Caity  
KU4QD

--

Caitlyn M ire Martin

caitlyn@netferrets.net  
http://www.caitys-world.com

-----  
Date: Tue, 1 Aug 2000 13:31:55 -0500  
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>  
To: "'ae4ic@nr.infi.net'" <ae4ic@nr.infi.net>, Low Power Amateur Radio Discussion  
<qrp-l@Lehigh.EDU>  
Subject: [76308] RE: Pocket ATU  
Message-ID:  
<4734702CFA3CD411A74A00805F57A3B703E3F3C0@dfwex01.allegiancetelecom.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Neil,  
If you'll re-read the article, you'll find the author states that the feed  
impedance of a 0.28 w1 wire  
(with counterpoise) is at (or near) 50 ohms. He chose that length, as  
opposed to a 0.25 w1 wire  
to make the matching network easier to implement (capacitors only).

Karl K - W8TIF  
McKinney, Texas

-----Original Message-----  
From: Bob Kellogg [SMTP:ae4ic@nr.infi.net]  
Sent: Tuesday, August 01, 2000 9:02 AM  
To: Low Power Amateur Radio Discussion  
Subject: Re: Pocket ATU

Neil,

That's probably how long his piece of wire was. Most of us study the  
antenna design books in search of the ideal design. Eventually,  
though, we discover that if you're going to use a means of tuning the  
system, the actual length of the wire is not that critical.

Given a choice, I always opt for more wire, higher in the air.

I use a horizontal loop most of the time, and have to restring it  
every year or so due to storm damage, etc. It has been several  
lengths between about 400' and nearly 500'. It has always tuned all  
bands and worked well, regardless of the length, except 160M is easier  
to tune when the wire is longest.

The same thing could be said in general about dipoles or end fed

wires. That is, the more wire, the higher in the air, the better the performance. Tuning them on some bands may be more of a problem than on others, but, it can be done with good results.

If building a single band antenna in a permanent location, by all means prune it to resonance and don't use a tuner at all. If you want to use an antenna on more than one band, and intend to tune it, why sweat the length? Put as much wire as you can in the air! (I realize that this *does* affect the radiation pattern. IMHO, this is not significant for general coverage)

I agree with you about switching the caps in binary increments. Much simpler and more efficient use of parts.

w0yse@juno.com wrote:

> to resonance. The thing that puzzles me is why the 0.28 and not 0.25 w1.  
> Where did he get the 0.28w1??  
>  
> Instead of switching in all 100 pF caps, I might try and use a binary  
> system so that I can switch in more total capacitance. I would use  
> one-of each of these values: 100, 200, 400, 800 pF. I could then select a  
> combination of switch positions that cover every 100 pF up to 1500 pF.

--

73,

Bob Kellogg, AE4IC, Greensboro, NC  
Prolobly, not nececelery. - Benny Hill

-----  
Date: Tue, 1 Aug 2000 15:04:19 -0400  
From: Ed Lawson <elawson@lawson-philpot.com>  
To: ae4ic@nr.infi.net, Bob Kellogg <ae4ic@nr.infi.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>  
Subject: [76309] Re: BB No. 46 Addendum  
Message-ID: <00080115082300.00749@office4.office.new>  
Content-Type: text/plain  
MIME-Version: 1.0  
Content-Transfer-Encoding: 8bit

On Tue, 01 Aug 2000, Bob Kellogg wrote:

> Guys,  
>  
> I forgot to mention one interesting contact. This guy had a nice  
> signal, but for power the guy said KW! I had to smile, and wondered  
> if he realized he was operating in a QRP contest. Then, it occurred  
> to me that while he had a good signal, there were several others on

> the band just as good, and they were running 5 watts or less!

Didn't work the KW, but I did work the 100W guy from Canada.  
The more the merry as far as I care. Absolutely right that the 5W and even lower all sounded about the same. I was distressed to call CQ and hear many responding, but all were in the noise and not copyable at times. I only worked one station at 1W or less. I was running Sierra at 1.5W or so. Total of 26 contacts with well over half other Bees. Lots of fun. I found 15M and 20M most productive, but QSB was a major issue here in NH.

Ed Lawson  
K1VP  
NH

-----  
Date: Tue, 1 Aug 2000 12:02:40 -0700  
From: "bob baxter" <rbaxter@cybertrails.com>  
To: <qrp-1@lehigh.EDU>  
Subject: [76310] FS  
Message-ID: <000301bffb3eb\$15c0b3a0\$41142aa2@bobbaxte>  
MIME-Version: 1.0  
Content-Type: text/plain;  
        charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Group,  
A Ham friend, who isn't on the internet, has asked me to help him sell some equipment for him.  
Kenwood TM-V7A dual band 2m/70cm with voice module. Xband operation. It is unused, had about 5 min checkout. It cost him \$500 new and he will take \$300 plus shipping.  
Astron Power Supply Model 35M with meters. 35 amp. He has had it for a year or so but it probably hasn't more than 20 hours total use. \$100 plus shipping.  
He requires a cashier's check or money order. If you're interested answer to me and if you want to talk to him I will give you his phone number.  
Bob Baxter AA7EQ Bisbee, Az.

-----  
Date: Tue, 1 Aug 2000 13:07:01 -0600  
From: "Rod, N0RC" <n0rc@qsl.net>  
To: <ae4ic@nr.infi.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76311] Re: BB No. 46 Addendum

Message-ID: <01c201bffbfbef91bd3a0\$818611d8@compaq>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Gang:

I worked him too, N5JD. From QRZ:

N5JD  
JACK S. DANNELS  
33 W PRAIRIE  
EAGLE LAKE TX 77434

His birthday is listed as 1921! Hope I can operate CW as well as Jack when I am 79.

My guess is that he's been a ham a long time, knew just what he was doing and jumped in for some fun. Maybe a QRP-Ler down Texas way can contact Jack and find out more.

---

72/3 Rod, N0RC -- Fort Collins, CO

----- Original Message -----

From: Bob Kellogg <ae4ic@nr.infi.net>  
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>  
Sent: Tuesday, August 01, 2000 7:39 AM  
Subject: BB No. 46 Addendum

> Guys,  
>  
> I forgot to mention one interesting contact. This guy had a nice  
> signal, but for power the guy said KW! I had to smile, and wondered  
> if he realized he was operating in a QRP contest. Then, it occurred  
>

-----

Date: Tue, 1 Aug 2000 22:02:04 +0100  
From: "Andy GM0NWI" <Gm0nwi@tesco.net>  
To: <qrp-l@lehigh.edu>  
Subject: [76312] Heathkit SB201 Linear Help...?  
Message-ID: <000501bffbfbfdb68ba20\$18448cd4@q1n3l2>

MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Guy`s....

A friend of mine, a "ham" from Kansas, has asked me to "post" a question for him, regarding the possibility of anyone having the piece he need`s to repair his Heathkit SB201 Linear...

He is in need of the 40m Input Tank Coil for his linear..... the previous one was burnt out by the previous owner of the linear....

Any help on aquiring this one would be greatly appreciated.....

72s de Andy gm0nwi@tesco.net  
gm0nwi@btinternet.com  
A.R.S. GM0NWI

"Long Live QRP...!"

"All The Best Wishes From Bonnie Scotland.."

GQRP No.9576

"The Weakest Station In The Nation.."

QRP-L No.2165

ICQ No.31899603

"It is vain to do with more..."

what can be done with

less.."

-----  
Date: Tue, 1 Aug 2000 16:57:56 -0400  
From: "AI2Q Alex" <ai2q@ispchannel.com>  
To: "QRP-L (E-mail)" <qrp-l@Lehigh.EDU>  
Subject: [76313] RE: Wattmeter thoughts  
Message-ID: <000001bffbfb\$2bf36e00\$5c32a7d0@ispchannel.com>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

An article I authored a few years ago is now posted at eham.net. It



describes a way to measure low power with good accuracy. The file can be read at <http://www.eham.net/articles/1024>.

Vy 73, AI2Q, Alex in Kennebunk, Maine QRP-L 687 .-.-.

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU] On Behalf Of Stewart Bryant

Sent: Monday, July 31, 2000 4:07 PM

To: Low Power Amateur Radio Discussion

Subject: Re: Wattmeter thoughts

G3GR0 and I (G3YSX) published a circuit to build a bridge based mw meter in RadCom Jan/Feb 2000. We used a small low voltage bulb as the sensor. It was good beyond 2m with relatively little problem.

Stewart G3YSX

Arjen Raateland wrote:

> Pete Burbank wrote:

> >

> > I was curious why Peltier diodes are not used in wattmeters so

> > mounted one in a diecast box with a heat sink on the back.

>

> I don't know about that idea, but it has something to do with heat and

> so has the following RF power measurement idea. It is a simple DC bridge

> circuit to measure low-level RF power.

>

> You need one glass-encapsulated NTC bead, which is the hard part :-(

>

> Looking into the RF input of the circuit there are three resistors in

> parallel. One is the NTC. The other two are 150 Ohm fixed. At the far

> ends they are bypassed for RF. The NTC and one of the 150 Ohm resistors

> also make up one arm of a DC bridge circuit. The second 150 Ohm resistor

> is in the null detector leg, i.e. in series with the microA null meter

> for bridge balance.

>

> Complete the bridge circuit with two other resistors of equal value.

>

> Supply the bridge with a variable DC voltage (series pot or finely

> adjustable supply). Vary the bridge supply until you find the null. The

> NTC heats up from the DC current in the bridge arm and will reach 150

> Ohm at a certain supply current, which is when the bridge is balanced.

> Note the DC current.

>

> Now supply a little RF to the RF input. This is dissipated in the three  
> resistors (2x150 Ohm fixed and the NTC also at 150 Ohm in parallel,  
> hence the total input resistance for RF is 50 Ohm). Readjust DC supply  
> downwards until new null found. Note the new, lower DC current.  
>  
> Do the math. Slow, but should be good for mW's and less.  
>  
> Disclaimer: I didn't invent this.  
>  
> 73,  
> --  
> Arjen Raateland  
> SAS Support  
> Finnish Environment Institute, Helsinki  
>  
> AX.25: OH2ZAZ@OH2RBI.FIN.EU

-----  
Date: Tue, 1 Aug 2000 17:33:58 EDT  
From: Daj73s@aol.com  
To: qrp-l@lehigh.edu  
Subject: [76314] FS:HW-9  
Message-ID: <6e.1b141f9.26b89c46@aol.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit

Hi Gang...

I have for sale a HW-9 with WARC bands and manual.No mods  
have been done to this unit at all.Unit is in real good condx.  
asking 300.00 dollars or best offer....

e-mail me or contact me at 716-826-7740  
tnx....AA2PF....dave

-----  
Date: Tue, 1 Aug 2000 14:34:16 -0700 (PDT)  
From: wa4dou@excite.com  
To: ae4ic@nr.infi.net, qrp-l@lehigh.edu  
Subject: [76315] Re: BB No. 46 Addendum  
Message-ID: <32784736.965165656267.JavaMail.imal@derby>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Hi Bob,

Hope this doesn't dampen your spirits any but that is a scientifically meaningless comparison.

73 roy WA4DOU

-----  
On Tue, 01 Aug 2000 09:39:36 -0400, ae4ic@nr.infi.net wrote:

> Guys,  
>  
> I forgot to mention one interesting contact. This guy had a nice  
> signal, but for power the guy said KW! I had to smile, and wondered  
> if he realized he was operating in a QRP contest. Then, it occurred  
> to me that while he had a good signal, there were several others on  
> the band just as good, and they were running 5 watts or less!  
>  
> --  
> 73,  
> Bob Kellogg, AE4IC, Greensboro, NC  
> Prolobly, not nececelery. - Benny Hill  
>  
>

-----  
Say Bye to Slow Internet!

<http://www.home.com/xinbox/signup.html>

-----  
Date: Tue, 1 Aug 2000 14:39:31 -0700  
From: "Mont Pierce" <MyGrapeVine@yahoo.com>  
To: <Gm0nwi@tesco.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>  
Subject: [76316] Re: Heathkit SB201 Linear Help...?  
Message-ID: <014e01bffc00\$fbf80c00\$27010101@sigma>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

I don't know---this sound a little anti-qrp to me... hi hi

----- Original Message -----

From: Andy GM0NWI <Gm0nwi@tesco.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Sent: Tuesday, August 01, 2000 2:02 PM

Subject: Heathkit SB201 Linear Help...?

> Guy's....

>

> A friend of mine, a "ham" from Kansas, has asked me to "post" a question for  
> him, regarding

> the possibility of anyone having the piece he need's to repair his Heathkit  
> SB201 Linear...

>

> He is in need of the 40m Input Tank Coil for his linear..... the previous  
> one was burnt out by the  
> previous owner of the linear....

>

> Any help on acquiring this one would be greatly appreciated.....

>

> 72s de Andy

gm0nwi@tesco.net

> gm0nwi@btinternet.com

> A.R.S. GM0NWI

> "Long Live QRP...!"

"All The Best Wishes From Bonnie Scotland.."

>

> GQRP No.9576

"The Weakest Station In The Nation.."

> QRP-L No.2165

> ICQ No.31899603

"It is vain to do with more..."

>

what can be done with

> less.."

>

>

>

>

>

>

-----

Date: Tue, 1 Aug 2000 17:02:05 -0400

From: "George Osier" <gosier@twcnny.rr.com>

To: <qrp-1@lehigh.EDU>

Subject: [76317] TEST.....

Message-ID: <005901bffbfb\$bfccdb20\$5d48a918@compaq.twcnny.rr.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Testing.....

-----  
Date: Tue, 01 Aug 2000 18:18:55 -0400  
From: david sarraf <david.sarraf@paonline.com>  
To: qrp-1@Lehigh.EDU  
Cc: faunt@netcom.com, w5usj@globeco.net  
Subject: [76318] PSK & TP 1200 -- No RS-232  
Message-ID: <39874CCF.65D992D4@paonline.com>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Black Box ([www.blackbox.com](http://www.blackbox.com)) makes a USB-to-RS232 adapter, and a recent Nuts and Volts article had a writeup about developing USB peripherals that included sources of hardware, software, and documentation. Neither solution is ideal. The Black Box adapter is about \$80, and from my frame of reference that is expensive. The roll-your-own approach isn't much better either in the cost of developmental hardware or in the cost of time.

If there is sufficient interest I would be interested in making an adapter and kitting it. I enjoy working with hardware such as peripherals and microprocessors but would need some help with the device driver at the PC end. If anyone wants to work with me please let me know. This would have to be an off-list effort - the subject is only peripherally related to QRP.

Dave Sarraf  
N3NDJ

-----  
Date: Tue, 1 Aug 2000 15:34:45 -0700  
From: "bob baxter" <rbaxter@cybertrails.com>  
To: <qrp-1@lehigh.EDU>  
Subject: [76319] Re: FS  
Message-ID: <007c01bffc08\$b3ad9a20\$50142aa2@bobbaxte>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Group, The Kenwood dual bander is sold. The Astron P/S is still

available and would like to add Radio Shack Trunktracker 800mhz scanner  
model PRO 2050 about 1 1/2 years old. New cost \$250 asking \$100. Bob  
Baxter AA7EQ Bisbee, Az.

-----  
End of QRP-L Digest 1900

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